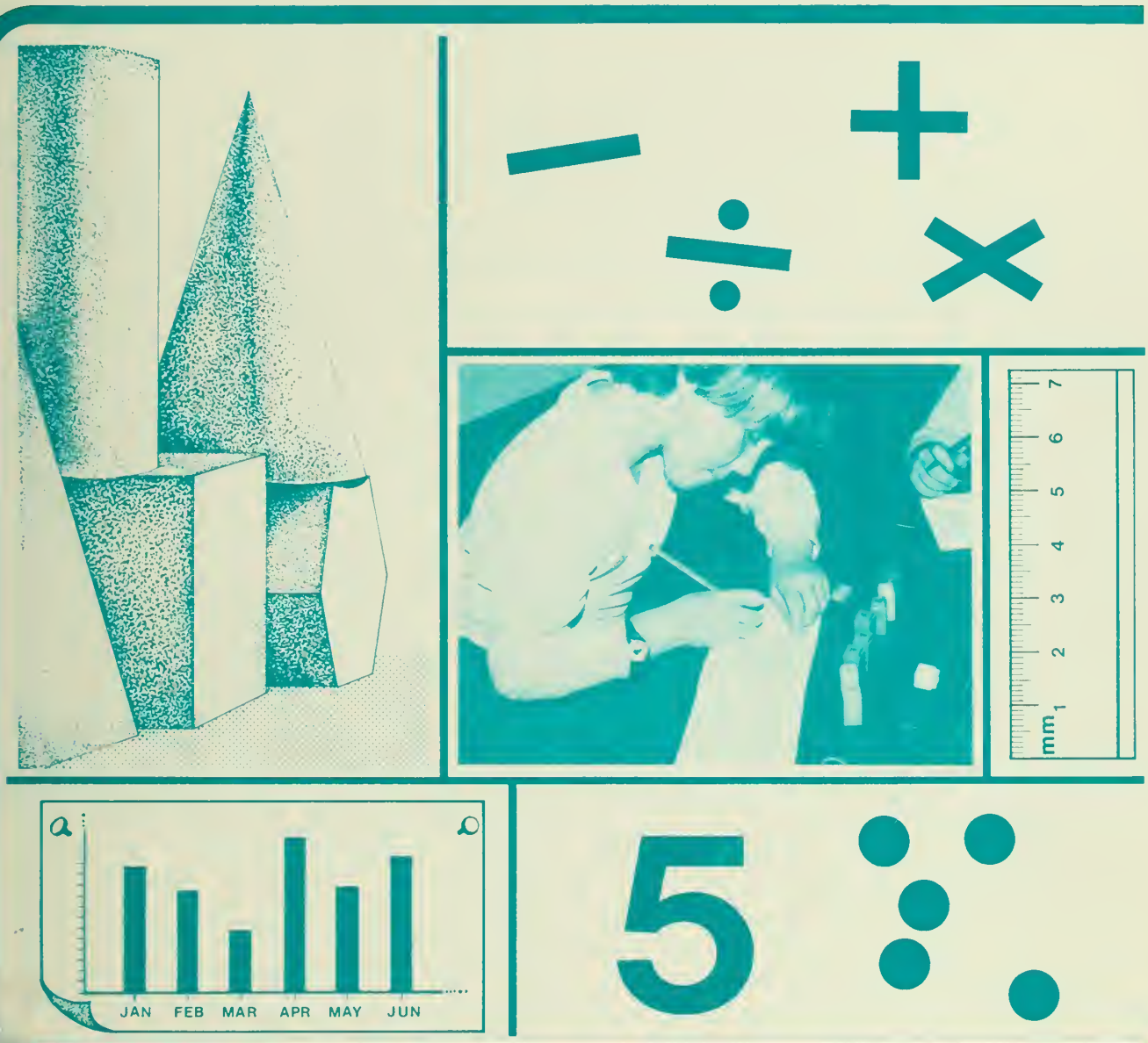
Supplementary Learning Resources



ENTARY MATHEMATICS

1983

riculum

Alberta EDUCATION

CURRICULUM
QA
135.5
Z9
A32
1983
ALTA
510.7
1983
Gr1-6
CURR
CURRGDHT

Digitized by the Internet Archive
in 2012 with funding from
University of Alberta Libraries

http://archive.org/details/elementmathsupreso83albe

AL/A
B10 7
1983
Gr 1-
c.1

ELEMENTARY MATHEMATICS SUPPLEMENTARY LEARNING RESOURCES GUIDE

1983

Alberta
EDUCATION

ACKNOWLEDGEMENTS

Alberta Education acknowledges with appreciation the contributions of the following members of the Elementary Mathematics Learning Resources Ad Hoc Committee:

Mrs. Diane Alfieri, Teacher, County of Strathcona #20
Mr. Wayne Blair, Media and Curriculum Consultant, Alberta Education (Chairman)
Mrs. Irene De Champlain, Teacher, Edmonton Catholic School Board
Mr. Richard Johnson, Teacher, Edmonton Public School Board
Mr. Louis Monti, Teacher, Calgary Board of Education
Mr. Garry Popowich, Associate Director of Curriculum, Alberta Education

Special thanks are expressed to the Calgary Board of Education and the Edmonton Public School Board for their assistance in locating suitable learning resources. In this regard, use was made of the Calgary Board of Education learning resource selection publication, *Suggested Titles Listing* and the Edmonton Public Board of Education learning resource selection publication, *Highlights*. Special thanks are also expressed to Jean Claude Mah of the National Film Board of Canada for his assistance in locating suitable learning resources produced by the National Film Board.

This learning resources guide contains a number of computer software learning resources. This area is very new and additional listings will be forthcoming from the Office of Computer Technology, Alberta Education.

Alberta Education acknowledges with thanks the following:

Compilation and Development:	W. Blair
Learning Resource Officer:	R. McConnell
Copy Editing:	E. McCardle
Photography:	C. Evans
Artwork:	S. Chen
Typing:	S. Clare
	R. Dul
	K. Blevins

CONTENTS

INTRODUCTION / 1

USING SUPPLEMENTARY LEARNING RESOURCES / 2

HOW TO USE THIS GUIDE / 3

SUBJECT INDEX / 5

TITLE INDEX WITH DESCRIPTIONS / 17

APPENDICES

- APPENDIX I List of Publishers and/or Distributors / 102
- APPENDIX II Other Useful Learning Resources / 107
- APPENDIX III Regional Resource Centre Directory / 108

INTRODUCTION

This publication is a service document containing information on suggested elementary mathematics supplementary learning resources. Supplementary learning resources are print and non-print resources which support the curriculum by reinforcing or enriching the learning experience.

The suggested supplementary learning resources in this publication have been selected by the Elementary Mathematics Learning Rescurces Ad Hoc Committee, or have been recommended by the Calgary Board of Education learning resource selection publication, *Suggested Titles Listing* or the Edmonton Public Board of Education learning resource selection publication, *Highlights*, or the Alberta Education Office of Computer Technology.

The suggested supplementary learning resources in this publication do not constitute an exhaustive list, but rather are suggestive of the kinds of appropriate learning resources available. The availability of learning resources is continually changing as resources go out of print or as new resources are produced. Prices quoted in this publication **are approximate and subject to change.**

USING SUPPLEMENTARY LEARNING RESOURCES

Supplementary learning resources can provide a wide variety of meaningful student experiences beyond that provided by prescribed learning resources.

Supplementary learning resources can satisfy specific curriculum objectives and student learning needs by:

- providing for individual differences in rate and style of student learning.
- maximizing opportunities for exceptional children.
- providing opportunities for student creativity.
- communicating factual content and enhancing the learning of facts and concepts through oral, pictorial and written clues.
- familiarizing students with the use of modern technology as a learning tool.
- providing a link between the classroom and the outside world.

HOW TO USE THIS GUIDE

This supplementary learning resources guide is a simple listing of a large number of elementary mathematics materials that were recently reviewed. The listing is not exhaustive but is indicative of the learning resources available for purchase or loan.

The SUBJECT INDEX lists each learning resource by title with due consideration to subject content and media format.

The TITLE INDEX WITH DESCRIPTIONS lists each learning resource by title and gives a brief description as follows:

Title:_____

Publisher: source / copyright date / medium
Distributor: source / cost / length
Grade: suggested grade level for utilization
Review: the source of the review
Description: _____

_____

_____

_____

SUBJECT INDEX

CALCULATORS

Calculator Math / print
Calculators in the Classroom / print
Mathematics for Elementary School Teachers / print
A New Twist / print
Number Treasury / print
Pocket Calculator Book / print
How to Develop Problem Solving Using a Calculator / print
Keystrokes A, B, C and D / print
Math Problems: Solving 2 / Kit

COMPUTERS

Around Perception / 16 mm
BASIC: An Introduction to Computer Programming / Kit
Be a Computer Literate / print
Computer Literacy: Computers, Calculators and Electronic Games / video
Computer Literacy: Computers and You / video
Computer Literacy: Input/Output / video
Computers are Fun / print
Computers are Fun (Teacher's Guide) / print
Computers for Kids / print
Exploring with Computers / print
Katie and the Computer / print
LOGO for the Apple II / print
Mathematics for Elementary School Teachers / print
Meet the Computer / print
Mindstorms: Children, Computers and Powerful Ideas / print
My Friend the Computer / print
My Friend the Computer (Teacher's Guide) / print
Robots / print
Silicon Chips and You / print
Teacher's Guide to Computers in the Elementary School / print
Teaching BASIC Bit by Bit / print
Dynamath / print

CONSTRUCTION AND DESIGNS

Brainy Blocks: Advanced Set / game
Brainy Blocks: Approaching Set / game
Brainy Blocks: Basic Set / game
Brainy Blocks: Creative Set / game
Mira Math Activity / print

CONSUMER EDUCATION

Computer Literacy: Computers and You / video

FINGER MATH

The Complete Book of Chisanbop / print

GEOMETRY

Activities in Geometry for Primary Pupils / print
Around Perception / 16 mm
Balablok / 16 mm
The Book of Shapes / print
Brainy Blocks: Advanced Set / game
Brainy Blocks: Approaching Set / game
Brainy Blocks: Basic Set / game
Brainy Blocks: Creative Set / game
Bubbles: A Children's Museum Activity Book / print
Building Angles Within Shapes / print
Building Geometric Shapes / print
Building Maths / print
Circus Maths / print
Clothes Maths / print
Dance Squared / 16 mm
Disney's Basic Math Program / kit
Farm Maths / print
Garage Maths / print
Geometrics / print
How to Really Fool Yourself / print
It Figures: Looking at Objects from Different Positions / video
Key Math Attribute Blocks / kit
Key Math Boards / kit
Key Math Card Decks / kit
Key Math Tumblers / kit
Let's Pattern Block It / print
Listen to Shape / print
Math Lab Experiences for Children / print
Math Patrol 2: Shapes / video
Math Patrol 2: Solids / video
Math Patrol 2: Transformation / video
Math Patrol 3: Area / video

GEOMETRY (continued)

Math Patrol 3: Symmetry / video
Mathematics...A Way of Thinking / print
Mathematics Their Way / print
Measuring Geometric Shapes / print
Media Activities in Science / kit
Mira Math Activity / print
Mirror Magic / print
Notes on a Triangle / 16 mm
Playground Maths / print
Problem Solving - A / print
Problem Solving - B / print
Problem Solving - C / print
Rhythmetic / 16 mm
Sand Castle / 16 mm
Seaside Maths / print
Shape Silhouettes / kit
Shapes / print
Solve It - A / print
Solve It - C / print
Spaces, Shapes and Sizes / print
Stepping Stones: Geometric Shapes / kit
Stop and Look! Illusions / print
Symmetry / game
Tchou-tchou / 16 mm
Thinkabout: Blockbusting / video
Thinkabout: Maps and Models / video
Thinkabout: More Than You Think / video
Wee Shapes Games / kit

GRAPHING

Building Maths / print
Circus Maths / print
Clothes Maths / print
Developing Skills With Tables and Graphs / print
Farm Maths / print
Garage Maths / print
Math Lab Experiences for Children / print
Mathematics Their Way / print
Multilink Cubes / kit
Multilink Handbook / print
Multilink 100 Pegboard / kit
Playground Maths / print
Seaside Maths / print
Shapes / print
Tables and Graphs / print

LARGE NUMBERS

Calculator Math / print
Pocket Calculator Book / print

LOGIC AND PUZZLES

Attribute Acrobatics / print
Brainy Blocks: Advanced Set / game
Brainy Blocks: Approaching Set / game
Brainy Blocks: Basic Set / game
Brainy Blocks: Creative Set / game
Dynamath / print
Favorite Problems / print
Mathematics...A Way of Thinking / print
Mathematics Games for Classroom Use / print
A New Twist / print
Problem Solving - A / print
Problem Solving - B / print
Problem Solving - C / print
Puzzle Books for Your Enrichment Centre / print
Quizzles / print
Small, Medium, Big / game
Where Is It? / print

MANIPULATIVE MATERIALS

Advanced Pattern Block Activity Cards / kit
Brainy Blocks: Advanced Set / game
Brainy Blocks: Approaching Set / game
Brainy Blocks: Basic Set / game
Brainy Blocks: Creative Set / game
Individualized Computation / print
Individualized Computation (Teacher's Guide) / print
Key Math Attribute Blocks / kit
Key Math Balance / kit
Key Math Boards / kit
Key Math Card Decks / game
Key Math Chips / kit
Key Math Tumblers / kit
Let's Pattern Block It / print
Math Activities for Children / print
Math Lab Experiences for Children / print
Mathematics Their Way / print
Multilink Cubes / kit
Multilink Handbook / print
Multilink 100 Pegboard / kit
Multilink Pattern Boards / kit
The 1 to 10 Number Track / kit
Primary Pattern Block Activity Cards / kit
The Recticel Counting Board / kit
Skateboard Practice / print

MANIPULATIVE MATERIALS (continued)

Small, Medium, Big / game
Spectrum School Balance / kit
Stepping Stones: Geometric Shapes
Stepping Stones: Number Patterns / kit
Stepping Stones: Numerals / kit
Walk on Number Line / kit
Work Jobs II / print

MATHEMATICS IN DAILY LIFE

Building Maths / print
Calculator Math / print
Circus Maths / print
Clothes Maths / print
Computer Literacy: Computers and You / video
Developing Skills With Tables and Graphs / print
Dynamath / print
Farm Maths / print
Garage Maths / print
Listen to Shape / print
Math All Around Us / kit
Math Patrol 2: Math, Who Needs It? / video
Mindstorms: Children, Computers and Powerful Ideas / print
Money / print
Playground Maths / print
Problem Solving - A / print
Problem Solving - B / print
Problem Solving - C / print
Quizzles / print
Seaside Maths / print
When Are We Ever Gonna Have To Use This? / print

MATHEMATICS IN OTHER SUBJECT AREAS

Around Perception / 16 mm
Chime In / print
Dance Squared / 16 mm
Notes on a Triangle / 16 mm
Quizzles / print
Sand Castles / 16 mm
Tchou-tchou / 16 mm

MEASUREMENT

Building Maths / print
Circus Maths / print
Clothes Maths / print
Farm Maths / print
Garage Maths / print

MEASUREMENT (continued)

How Much? How Many? / kit
Key Math Balance / kit
Key Math Card Decks / game
Key Math Tumblers / kit
Math Lab Experiences for Children / print
Math Patrol 2: Length / video
Mathematics Their Way / print
Measurement / print
Measurement Comparisons / kit
Measuring Geometric Shapes / print
Metrics: Maxwell Mouse in the Land of Metrics / kit
Playground Maths / print
Seaside Maths / print
Solve It - E / print
Stepping Into Science: Set 1: How Big is a Stick / kit
Thinkabout: Approximating / video
Thinkabout: Blockbusting / video
Thinkabout: Estimating / video
Thinkabout: More Than You Think / video
Thinkabout: Using Estimating and Approximating / video
Time / print

METRIC MEASUREMENT

Going Metric the Fun Way / print
Key Math Balance / kit
Math Drill / computer
Metric Measurement / print
Metrics: Maxwell Mouse in the Land of Metrics / kit

NUMERATION

All About Numbers and Counting / kit
Base Ten Blocks / kit
Basic Ten Mathematics / print
Beginning Math Adventures of the Lollipop Dragon / kit
Building Maths / print
Calculator Math / print
Circus Maths / print
Clothes Maths / print
Combination Bucket, Pan and Number Balance / kit
Countermaster Major / game
Counting Bee / computer
Cuisenaire Roddles / kit
Decimal Concepts / print
Decimal Point / print
Disney's Basic Math Program / kit
Elementary Mathematics: Between Rational Numbers / video
Elementary Mathematics: Between Whole Numbers / video
Elementary Mathematics: Comparing Rational Numbers / video

NUMERATION (continued)

Farm Maths / print
Fraction Action / print
Fraction Concepts / print
Fraction Primer / print
Fun With Fractions / print
Fun With Multiplication and Division / print
Fun With Numbers / print
Garage Maths / print
The Junior Counting Board / kit
Key Math Attribute Blocks / kit
Key Math Card Decks / game
Key Math Chips / kit
Math Lab Experiences for Children / print
Mathematics for Beginners / kit
Mathematics Games for Classroom Use / print
Mathematics Their Way / print
More Numbers / print
Multilink Activity Cards / kit
Multilink Counting Board / kit
Multilink Cubes / kit
Multilink Handbook / print
Multilink Number Track / kit
Multilink 100 Pegboard / kit
Multilink Pattern Boards / kit
Multiplying By Powers of Ten / print
A New Twist / print
Numbers / print
Numeration / print
One More and One Less: A Number Concept Book / print
1, 2, 3 I Can Count / print
The 1 to 10 Number Track / kit
Place Value and Rounding / print
Problem Solving - A / print
Problem Solving - B / print
Problem Solving - C / print
Reading and Writing Large Numbers / print
The Recticel Counting Board / kit
Rhythmetic / 16 mm
Rolling Math / kit
Seaside Maths / print
Solve It - D / print
Spectrum School Balance / kit
Stepping Into Science: Set 2: Many is How Many? / kit
Stepping Stones: Number Patterns / kit
Stepping Stones: Numerals / kit
Walk On Number Line / kit
Whole Number Equations / print
Whole Numbers / print
Work Jobs II / print

OPERATIONS AND PROPERTIES

Addition and Subtraction / print
Adventure in the Year 3000 - Series A / kit
Adventure in the Year 3000 - Series B / kit
Base Ten Blocks / kit
Beginning Math Adventures of the Lollipop Dragon / kit
Calculator Math / print
Combination Bucket, Pan and Number Balance / kit
The Complete Book of Chisanbop / print
Corrective Mathematics: Addition (Student Workbook) / print
Corrective Mathematics: Addition (Teacher's Guide) / print
Corrective Mathematics: Division (Student Workbook) / print
Corrective Mathematics: Division (Teacher's Guide) / print
Corrective Mathematics: Multiplication (Student Workbook) / print
Corrective Mathematics: Multiplication (Teacher's Guide) / print
Corrective Mathematics: Series Guide / print
Corrective Mathematics: Subtraction (Student Workbook) / print
Corrective Mathematics: Subtraction (Teacher's Guide) / print
Cuisenaire Roddles / kit
Counting Bee / computer
Disney's Basic Math Program / kit
Dynamath / print
Elementary Mathematics: Adding With Fractions / video
Elementary Mathematics: Addition with Mixed Numerals / video
Elementary Mathematics: Comparing Rational Numbers / video
Elementary Mathematics: Dividing With Fractions / video
Elementary Mathematics: Equivalent Fractions / video
Elementary Mathematics: Multiplying With Fractions / video
Elementary Mathematics: Ratio / video
Elementary Mathematics: Reciprocals / video
Elementary Mathematics: Reciprocals and Inverses / video
Elementary Mathematics: Shortcuts in Multiplying With Fractions / video
Elementary Mathematics: Subtracting With Fractions / video
Elementary Mathematics: Subtracting With Mixed Numerals / video
Elementary Mathematics: Using Equivalent Fractions / video
Fun With Addition and Subtraction / print
Fun With Fractions / print
Fun With Multiplication and Division / print
Fun With Numbers / print
Individualized Computation / print
Individualized Computation (Teacher's Guide) / print
It Figures: Deciding When to Use Multiplication / video
It Figures: Deciding When to Use Subtraction / video
Keep Up With the Times / print
The Mad Minute / print
Math Drill / computer
Math Lab Experiences for Children / print
Math Patrol 2: Addition / video
Math Patrol 2: Fractions / video

OPERATIONS AND PROPERTIES (continued)

Math Patrol 2: Subtraction / video
Math Patrol 3: Division / video
Math Patrol 3: Multiplication / video
Math Problems - Solving 2 / kit
Math Skills Kit / kit
Mathematics: Level A / computer
Mathematics: Level B / computer
Mathematics: Level C / computer
Mathematics for Beginners / kit
Mathematics Games for Classroom Use / print
Mathematics Their Way / print
Multiplication and Division / print
A New Twist / print
One More and One Less: A Number Concept Book / print
The 1 to 10 Number Track / kit
Problem Solving - A / print
Problem Solving - B / print
Problem Solving - C / print
Rhythmetic / 16 mm
Rolling Math / kit
Skateboard Practice / print
Subtracting Express / game
Whole Number Equations / print
Work Jobs II / print

PATTERNS

Calculator Math / print
Exploring Math: Patterns and Functions / kit
Multilink 100 Pegboard / kit
A New Twist / print
Problem Solving - A / print
Problem Solving - B / print
Problem Solving - C / print
Solve It - D / print
Stepping Stones / kit
Thinkabout: Native's Patterns / video
Thinkabout: People Patterns / video

PERMUTATIONS AND COMBINATIONS

Pocket Calculator Book / print

PROBABILITY AND STATISTICS

Calculator Math / print
Developing Skills With Tables and Graphs / print
Key Math Attribute Blocks / kit
Mathematics...A Way of Thinking / print
Pocket Calculator Book / print

PROBLEM SOLVING

Attribute Acrobatics / print
Calculator Math / print
Developing Skills on Estimation: Book A / print
Favorite Problems - 1 / print
How to Develop Problem Solving Using a Calculator / print
Individualized Computation / print
Individualized Computation (Teacher's Guide) / print
Math Problems: Solving 1 / kit
Math Problems: Solving 2 / kit
Mathematics for Elementary School Teachers / print
Mathematics Their Way / print
A New Twist / print
Problem Solving / print
Problem Solving - A / print
Problem Solving - B / print
Problem Solving - C / print
Problem Solving: A Basic Mathematics Goal / print
Quizzles / print
Solve It - B / print
Solve It - C / print
Solve It - E / print
Story Problems / print
Teaching Problem Solving: What, Why and How / print
Thinkabout: Find Your Guide / video
Thinkabout: Get Ahead With Goals / video
Thinkabout: Hanging in There / video
Thinkabout: A Matter of Time / video
Thinkabout: More Than You Think / video
Thinkabout: One Step At a Time / video
Thinkabout: One Thing Leads to Another / video
Thinkabout: Search for the Unknown / video
Thinkabout: There's Always a Risk / video
Thinkabout: What Do I Know? / video
Thinkabout: What Should I Do? / video
Thinkabout: Where Should I Go? / video
What's My Rule? / print
Where Is It? / print
Work Jobs II / print

RESEARCH PROJECTS

Bubbles: A Children's Museum Activity Book / print
Dynamath / print
Exploring With Computers / print
Meet the Computer / print
Mirror Magic / print
Spaces, Shapes and Sizes / print
Stop and Look! Illusions / print
Thinkabout: Classifying Information / video
Thinkabout: Classifying Objects / video
Thinkabout: Get Ahead With Goals / video
Thinkabout: Make Something New / video
Thinkabout: Making Your Point / video
Thinkabout: Plan Ahead / video
Thinkabout: Search for the Unknown / video
Thinkabout: What Do I Know? / video
Thinkabout: What Should I Do? / video
Thinkabout: Where Should I Go? / video
When Is Now? Experiments With Time and Timekeeping Devices / print

SET THEORY

Building Maths / print
Circus Maths / print
Clothes Maths / print
Farm Maths / print
Garage Maths / print
Mathematics for Beginners / kit
Playground Maths / print
Seaside Maths / print
Thinkabout: Classifying Information / print

SHORT CUTS AND GIMMICKS

Calculator Math / print
Elementary Mathematics: Shortcuts in Multiplying With Fractions / video
Problem Solving - A / print
Problem Solving - B / print
Problem Solving - C / print
Thinkabout: Calm Your Jitters / video
Thinkabout: Classifying Information / video
Thinkabout: Classifying Objects / video

TANGRAMS

Activities in Geometry for Primary Pupils / print
Solve It - A / print

TESSELATIONS

Problem Solving - A / print
Problem Solving - B / print
Problem Solving - C / print

TIME

Sky Watchers of Ages Past / print
Stepping Into Science: Set 1: Shapes, Sides, Curves and Corners / kit
When Is Now?: Experiments With Time and Timekeeping Devices / print
Time / print

TITLE INDEX WITH DESCRIPTIONS

A

ACTIVITIES IN GEOMETRY FOR PRIMARY PUPILS

Publisher: Addison-Wesley / ? / Print
Distributor: Addison-Wesley / $5.82
Grade: Teacher Reference
Review: Alberta Education

A teacher reference that contains games and activities to reinforce or extend geometric concepts for primary students.

ADDITION AND SUBTRACTION

Publisher: Hayes Publishing Ltd. / 1980 / Print
Distributor: Hayes Publishing Ltd.
Grade: 1 - 6
Review: Alberta Education

A set of four student workbooks on addition and subtraction.

ADVANCED PATTERN BLOCK ACTIVITY CARDS

Publisher: Creative Teaching Association / 1974 / Kit
Distributor: Spectrum / $18.95 / 24 cards
Grade: 2 - 6
Review: Alberta Education

A set of 24 activity cards designed to provide manipulative experiences with concepts such as symmetry, area, shape recognition and fractions.

ADVENTURE IN THE YEAR 3000 - SERIES A

Publisher: Scholastic / 1979 / Kit
Distributor: Scholastic / $200.00
Grade: 1 - 4
Review: Alberta Education

High interest, low vocabulary kit with workbook, spirit masters and audio cassette components. Designed to teach basic computation skills. Useful for remedial work.

ADVENTURE IN THE YEAR 3000 - SERIES B

Publisher: Scholastic / 1979 / Kit
Distributor: Scholastic / $200.00
Grade: 1 - 5
Review: Alberta Education

High interest, low vocabulary kit with workbook, spirit masters and audio cassette components. Designed to teach basic computation skills. Useful for remedial work.

ALL ABOUT NUMBERS AND COUNTING

Publisher: Selroy Music/Miller-Brody / 1976 / Kit
Distributor: Can. Ed. Media / $14.50
Grade: K - 1
Review: Calgary Public

A record and book that introduce and reinforce numbers and sequences through repetition and song. The book includes music for melody, lyrics and chords.

ATTRIBUTE ACROBATICS

Publisher: '74 Activity Resources Co. / ? / Print
Distributor: Spectrum / $10.95
Grade: 5 +
Review: Alberta Education

Problems to be used with attribute or logic blocks. Exercises range from simple geometry tasks to complex rotations, mapping and matrices.

AROUND PERCEPTION

Publisher: National Film Board / 1968 / 16 mm
Distributor: National Film Board / loan or sale / 16 minutes
Grade: 4 - 6
Review: Alberta Education

This film is an experiment in employing computers to animate film. The result is a dazzling vibration of geometric forms in vivid color.

B

BALABLOK

Publisher: National Film Board / 1972 / 16 mm
Distributor: National Film Board / loan or sale / 7 minutes
Grade: 4 - 6
Review: Alberta Education

Cubes and balls represent opposing protagonists in an animated replay of man's propensity to resort to violence rather than reason. The film is a parody on human nature using geometric shapes in a creative way.

BASE TEN BLOCKS - CLASSROOM SET

Publisher: Spectrum / ? / Kit
Distributor: Spectrum / $199.50
Grade: 1 - 6
Review: Alberta Education

Base ten blocks provide concrete models that give meaning to place value and the operations on whole numbers. This kit includes 10 decimetre cubes, 80 flats, 250 rods, 1200 unit cubes and one teacher guide.

BASE TEN BLOCKS - SMALL GROUP SET

Publisher: Spectrum / ? / Kit
Distributor: Spectrum / $52.50
Grade: 1 - 6
Review: Alberta Education

Base ten blocks provide concrete models that give meaning to place value and the operations on whole numbers. This kit contains 2 decimetre cubes, 30 flats, 50 rods, 200 unit cubes and a teacher guide.

BASE TEN BLOCKS - STARTER SET

Publisher: Spectrum / ? / Kit
Distributor: Spectrum / $30.25
Grade: 1 - 6
Review: Alberta Education

Base ten blocks provide concrete models that give meaning to place value and the operations on whole numbers. This kit includes one decimetre, 10 flats, 50 rods, 200 unit cubes and a teacher guide.

BASIC: AN INTRODUCTION TO COMPUTER PROGRAMMING

Publisher: Guidance Associates / 1981 / Kit
Distributor: Guidance Associates / $159.00
Grade: 5 - 10
Review: Edmonton Public

A kit containing 4 filmstrips and 4 cassette tapes. Problems using BASIC become progressively more complex, yet each solution is carefully explained. The kit teaches students vocabulary and use of the BASIC language.

BASIC FUN

Publisher: Avon Camelot / 1982 / Print
Distributor: Avon Camelot / $3.00 / 176 pages
Grade: 4 - 6
Review: Alberta Education

An introduction to the fundamentals of computer programming using the BASIC language. Listings of programs that will challenge upper elementary students are included.

BASIC TEN MATHEMATICS

Publisher: Spectrum / ? / Print
Distributor: Spectrum / $8.20
Grade: 1 - 6
Review: Alberta Education

A student book to be used with base ten blocks.

BE A COMPUTER LITERATE

Publisher: Creative Computing Press / 1977 / Print
Distributor: Creative Computing Press / $4.00 / 63 pages
Grade: 6
Review: Alberta Education

A full colour booklet that covers the types of computers, how they work, their applications in society, flowcharts and writing a simple program.

BEGINNING MATH ADVENTURES OF THE LOLLIPOP DRAGON

Publisher: Society For Visual Education / 1981 / Kit
Distributor: Moyer - Vico / $200.00
Grade: 1 - 2
Review: Calgary Public

A kit containing 6 filmstrips, 6 cassette tapes, 36 duplication masters, 1 teacher guide. Lollipop Dragon and Apple Blossom Visit Tum-tum to teach about cardinal numbers, addition, subtraction, place value in base 10.

THE BOOK OF SHAPES

Publisher: Elsevier - Dutton / 1979 / Print
Distributor: Elsevier - Dutton / $3.79 / 8 pages
Grade: K - 2
Review: Edmonton Public

Each of eight pages contains many examples of one of eight shapes (circle, triangle, cube, etc.). The circus picture contains wheels, hoops, balls, rings, etc.

BRAINY BLOCKS: ADVANCED SET

Publisher: Orda Industries / 1976 / Game
Distributor: Spectrum / $10.95
Grade: K - 1
Review: Alberta Education

A block game with manipulative shapes. The object of the game is to provide a young child with an understanding of, a method by which to use, the skills of shape and size recognition, space relationships, logical planning and thinking, and manual positioning and dexterity.

BRAINY BLOCKS: APPROACHING SET

Publisher: Orda Industries / 1979 / Game
Distributor: Spectrum / $8.95
Grade: K - 1
Review: Alberta Education

A block game with manipulative shapes. The object of the game is to provide a young child with an understanding of, a method by which to use, the skills of shapes and size recognition, space relationships, logical planning and thinking, and manual positioning and dexterity.

BRAINY BLOCKS: BASIC SET

Publisher: Orda Industries / 1976 / Game
Distributor: Spectrum / $10.95
Grade: K - 1
Review: Alberta Education

A block game with manipulative shapes. The object of this game is to provide a young child with an understanding of, a method by which to use, the skills of shape and size recognition, space relationships, logical planning and thinking, and manual positioning and dexterity.

BRAINY BLOCKS: CREATIVE SET

Publisher: Orda Industries / 1979 / Game
Distributor: Spectrum / $17.95
Grade: K - 1
Review: Alberta Education

A block game with manipulative shapes. The object of the game is to provide a young child with an understanding of, a method by which to use, the skills of shape and size recognition, space relationships, logical planning and thinking, and manual positioning and dexterity.

BUBBLES: A CHILDREN'S MUSEUM ACTIVITY BOOK

Publisher: Little / 1979 / Print
Distributor: Little / $8.95 / 64 pages
Grade: 3 - 5
Review: Edmonton Public

A guide to having fun with soap bubbles, including techniques for blowing and how to make gigantic bubbles, bubble sculptures and unusually shaped bubbles.

BUILDING ANGLES WITHIN SHAPES

Publisher: G.L.C. Publishers / ? / Print
Distributor: G.L.C. Publishers / $8.95
Grade: 6
Review: Alberta Education

A book of spirit masters useful for reinforcement or review in identifying and comparing angles, identifying and comparing polygons and measuring angles.

BUILDING GEOMETRIC SHAPES

Publisher: G.L.C. Publishers / ? / Print
Distributor: G.L.C. Publishers / $8.95
Grade: 3 - 6
Review: Alberta Education

Topics included are recognizing basic shapes, building shapes, combining related shapes, identifying hidden shapes and isolating shapes.

BUILDING MATHS

Publisher: Macdonald Educational / 1974 / Print
Distributor: G.L.C. Publishers / $3.33/ 28 pages
Grade: 1 - 3
Review: Alberta Education

A richly illustrated book that challenges students to look for ways that everyday objects and activities are related to mathematics using the theme of building.

C

CALCULATOR MATH

Publisher: Hayes Publishing / 1982 / Print
Distributor: Hayes Publishing / $2.50
Grade: 5 and 6
Review: Alberta Education

A student workbook consisting of numerous exercises for use with a calculator. Topics included are factoring, prime numbers, patterns, palindromes, reciprocals and probability.

CALCULATORS IN THE CLASSROOM

Publisher: John Wiley and Sons / 1981 / Print
Distributor: John Wiley and Sons / $17.50 / 202 pages
Grade: Teacher Reference
Review: Alberta Education

Teacher reference and suggestions for calculator applications. Answer key is included.

1, 2, 3 I CAN COUNT

Publisher: Ladybird Books / 1980 / Print
Distributor: William Collins / $4.95
Grade: K - 1
Review: Edmonton Public

A colourful counting book with large illustrations for the beginning reader.

CHIME IN

Publisher: Doubleday / 1981 / Print
Distributor: Doubleday / $8.90 / 184 pages
Grade: Teacher Reference
Review: Alberta Education

This publication suggests open-ended activities useful in an integrated program. The emphasis is on language arts with many suggested integrated activities including mathematics.

CIRCUS MATHS

Publisher: Macdonald Educational / 1974 / Print
Distributor: G.L.C. Publishers/ $3.33 / 28 pages
Grade: 1 - 3
Review: Alberta Education

A richly illustrated book that challenges students to look for ways that everyday objects and activities are related to mathematics using the theme of the circus.

CLOTHES MATHS

Publisher: Macdonald Educational / 1974 / Print
Distributor: G.L.C. Publishers / $3.33 / 28 pages
Grade: 1 - 3
Review: Alberta Education

A richly illustrated book that challenges students to look for ways that everyday objects and activities are related to mathematics using the theme of clothes.

COMBINATION BUCKET, PAN AND NUMBER BALANCE

Publisher: Spectrum / ? / Kit
Distributor: Spectrum / $28.00
Grade: 3 - 6
Review: Alberta Education

A versatile balance that comes with two buckets, 2 pans, and 20 hanging masses.

THE COMPLETE BOOK OF CHISANBOP

Publisher: Van Nostrand / 1981 / Print
Distributor: Van Nostrand / $21.55
Grade: 5 - 6
Review: Calgary Public

Chisanbop is a Korean invention for performing simple or complex arithmetic on one's fingers. This publication is a carefully prepared textbook containing hundreds of illustrations and examples.

COMPUTER LITERACY: COMPUTERS, CALCULATORS AND ELECTRONIC GAMES

Publisher: ACCESS / 1982 / Video
Distributor: ACCESS / No Charge / 10 minutes
Grade: 4 - 6
Review: Alberta Education

This videotape explains how computers, calculators and electronic video games all have a great deal in common and how they differ.

COMPUTER LITERACY: COMPUTERS AND YOU

Publisher: ACCESS / 1982 / Video
Distributor: ACCESS / No Charge / 10 minutes
Grade: 4 - 6
Review: Alberta Education

This videotape explores the impact of computers on everyday life such as automatic banking machines, billing procedures, grocery shopping, airline travel and checking out library materials.

COMPUTER LITERACY: INPUT/OUTPUT

Publisher: ACCESS / 1982 / Video
Distributor: ACCESS / No Charge / 10 minutes
Grade: 4 - 6
Review: Alberta Education

This videotape describes the purpose of functions of input and output, giving examples of various input and output devices. The ability of a computer to process data is also explained.

COMPUTERS ARE FUN

Publisher: T.S. Denison / 1981 / Print
Distributor: T.S. Denison / $4.00 / 62 pages
Grade: K - 3
Review: Alberta Education

This publication uses a storybook format to teach children about how computers help us, the historical development of computers, the parts of a computer, microcomputers, flowcharts and simple programs.

COMPUTERS ARE FUN (Teacher's Guide)

Publisher: T.S. Denison / 1981 / Print
Distributor: T.S. Denison / $8.00 / 92 pages
Grade: Teacher Reference
Review: Alberta Education

This publication uses a storybook format to teach children about how computers help us, the historical development of computers, the parts of a computer, microcomputers, flowcharts and simple programs. A glossary, multimedia bibliography, 27 duplicating masters, and detailed lesson plans are included in this publication.

COMPUTERS FOR KIDS

Publisher: Creative Computing Press / 1981 / Print
Distributor: Creative Computing Press / $6.00 / 55 pages
Grade: 5 and 6
Review: Alberta Education

This BASIC programming manual introduces the student to PRINT, GOTO, INPUT, RND, IF-THEN, and FOR-NEXT commands. Apple, Atari, TRS-80 and Sinclair ZX-81 editions are available. Sample programs, including graphic programs and a glossary are included.

CORRECTIVE MATHEMATICS: ADDITION - STUDENT WORKBOOK

Publisher: SRA / 1981 / Print
Distributor: SRA / $4.95 / 179 pages
Grade: 3 - 6
Review: Alberta Education

A remedial series of 65 lessons that teach the one-hundred basic addition facts, the operation of addition, reading and writing numbers into the thousands, column problems with three and four-digit numbers, carrying, and story problems that present distractors. The technique used is direct teaching using a script that specifies what the teacher says and does and what the students say and do.

CORRECTIVE MATHEMATICS: ADDITION - TEACHER'S GUIDE

Publisher: SRA / 1981 / Print
Distributor: SRA / $59.50 / 211 pages
Grade: Teacher Reference
Review: Alberta Education

A remedial series of 65 lessons that teach the one-hundred basic addition facts, the operation of addition, reading and writing numbers into the thousands, column problems with three and four-digit numbers, carrying, and story problems that present distractors. The technique used is direct teaching using a script that specifies what the teacher says and does and what the students say and do.

CORRECTIVE MATHEMATICS: DIVISION - STUDENT WORKBOOK

Publisher: SRA / 1981 / Print
Distributor: SRA / $4.95 / 187 pages
Grade: 3 - 6
Review: Alberta Education

A remedial series of 65 lessons that teach the one-hundred basic division facts, the operation of long division, division story problems, and story problems that require discrimination among addition, subtraction, multiplication and division. The technique used is direct teaching using a script that specifies what the teacher says and does and what the students say and do.

CORRECTIVE MATHEMATICS: DIVISION - TEACHER'S GUIDE

Publisher: SRA / 1981 / Print
Distributor: SRA / $59.50 / 199 pages
Grade: Teacher Reference
Review: Alberta Education

A remedial series of 65 lessons that teach the one-hundred basic division facts, the operation of long division, division story problems and story problems that require discrimination among addition, subtraction, multiplication and division. The technique used is direct teaching using a script that specifies what the teacher says and does and what the students say and do.

CORRECTIVE MATHEMATICS: MULTIPLICATION - STUDENT WORKBOOK

Publisher: SRA / 1981 / Print
Distributor: SRA / $4.95 / 184 pages
Grade: 3 - 6
Review: Alberta Education

A remedial series of 65 lessons that teach the one-hundred basic multiplication facts, the operation of multiplication, reading and writing numbers into the ten thousands, multiplication story problems, and story problems that require discrimination among multiplication, addition, and subtraction. The technique used is direct teaching using a script that specifies what the teacher says and does and what the students say and do.

CORRECTIVE MATHEMATICS: MULTIPLICATION - TEACHER'S GUIDE

Publisher: SRA / 1981 / Print
Distributor: SRA / $59.50 / 240 pages
Grade: Teacher Reference
Review: Alberta Education

A remedial series of 65 lessons that teach the one-hundred basic multiplication facts, the operation of multiplication, reading and writing numbers into the ten thousands, multiplication story problems, and story problems that require discrimination among multiplication, addition and subtraction. The technique used is direct teaching using a script that specifies what the teacher says and does and what the students say and do.

CORRECTIVE MATHEMATICS: SERIES GUIDE

Publisher: SRA / 1982 / Print
Distributor: SRA / $6.95 / 60 pages
Grade: Teacher Reference
Review: Alberta Education

An overview of the Corrective Mathematics Series with frequently asked questions, sample lessons, teaching strategies and sample placement tests.

CORRECTIVE MATHEMATICS: SUBTRACTION - STUDENT WORKBOOK

Publisher: SRA / 1981 / Print
Distributor: SRA / $4.95 / 208 pages
Grade: 3 - 6
Review: Alberta Education

A remedial series of 65 lessons that teach the one-hundred basic subtraction facts, the operation of subtraction, reading and writing numbers into the thousands, borrowing, subtraction story problems, and story problems that require discrimination between addition and subtraction. The technique used is direct teaching using a script that specifies what the teacher says and does and what the students say and do.

CORRECTIVE MATHEMATICS: SUBTRACTION - TEACHER'S GUIDE

Publisher: SRA / 1981 / Print
Distributor: SRA / $59.50 / 275 pages
Grade: Teacher Reference
Review: Alberta Education

A remedial series of 65 lessons that teach the one-hundred basic subtraction facts, the operation of subtraction, reading and writing numbers into the thousands, borrowing, subtraction story problems, and story problems that require discrimination between addition and subtraction. The technique used is direct teaching using a script that specifies what the teacher says and does and what the students say and do.

COUNTERMASTER MAJOR

Publisher: Macdonald Educational / 1971 / Game
Distributor: GLC / $3.95 /
Grade: K - 3
Review: Calgary Public

A very good game using cuisenaire rods to teach colour and size relationships.

COUNTING BEE (Version 1.1)

Publisher: Edmonton - Ware / ? / Computer
Distributor: D and A Microcomputers / $37.90 / 1 Disk
Grade: 1 - 3
Review: Alberta Education

A computer software package, in the Apple format, that consists of 8 modules controlled by a management system. The modules are counting blocks, counting moving circles, mixed height, water height, comparing weights, comparing lengths, simple addition, and simple subtraction. Questions are posed which require the user to count various shapes and/or add shapes. The operations of addition and subtraction are used.

CUISENAIRE RODDLES

Publisher: Cuisenaire Co. / 1981 / Kit
Distributor: Setsco Educ. Ltd.
Grade: 3 - 6
Review: Alberta Education

A kit containing 74 plastic cuisenaire rods (coloured rods of a variety of lengths) and a booklet that outlines 16 problems that involve thinking skills and the cuisenaire rods.

D

DANCE SQUARED

Publisher: National Film Board / 1981 / 16 mm
Distributor: National Film Board / loan or sale / 3 minutes
Grade: 1 - 6
Review: Alberta Education

This film employs movement, colour and music to explore the symmetries of the square. Every movement of the square and its components presents an opportunity to observe its geometrical properties in a way that is intriguing to young minds.

DECIMAL CONCEPTS

Publisher: Allyn and Bacon / 1981 / Print
Distributor: Allyn and Bacon
Grade: 3 - 6
Review: Alberta Education

A set of seven student workbooks on decimals and percents.

DECIMAL POINT

Publisher: Hayes Publishing Ltd. / ? / Print
Distributor: Hayes Publishing Ltd. / 32 pages
Grade: 3 - 6
Review: Alberta Education

A student workbook on the decimal point.

DEVELOPING SKILLS ON ESTIMATION: BOOK A

Publisher: Dale Seymour Publications / ? / Print
Distributor: Spectrum / $7.80
Grade: 6 - 7
Review: Alberta Education

Reproducible masters on problem solving with answers provided. Some reference to imperial measure. Very challenging material.

DEVELOPING SKILLS WITH TABLES AND GRAPHS

Publisher: Dale Seymour / ? / Print
Distributor: Spectrum / $7.80
Grade: 4 - 6
Review: Alberta Education

A series of two booklets on bar, circle and line graphs and the construction and interpretation of these graphs.

DISNEY'S BASIC MATH PROGRAM

Publisher: Walt Disney / 1980 / Kit
Distributor: McIntyre Educational Media / $187.00
Grade: 1 - 2
Review: Calgary Public

Familiar Disney characters introduce and/or review basic math concepts in story format, including - basic shapes, numeration, addition, subtraction, money (U.S.), and fractions. The kit includes 6 filmstrips, 6 cassettes, 6 duplication masters and a teacher guide.

DYNAMATH

Publisher: Scholastic Public / 1983 / Print
Distributor: Scholastic Public / $3.00 / 16 pages
Grade: 5 - 6
Review: Alberta Education

A magazine devoted to math and published nine times per year. A variety of information and activities is presented.

E

ELEMENTARY MATHEMATICS: ADDING WITH FRACTIONS

Publisher: General Learning Corporation / 1972 / Video
Distributor: ACCESS / No Charge / 10 minutes
Grade: 4 - 6
Review: Alberta Education

Through an animated approach, this program explores how to add fractions together.

ELEMENTARY MATHEMATICS: ADDITION WITH MIXED NUMERALS

Publisher: General Learning Corporation / 1972 / Video
Distributor: ACCESS / No Charge / 8 minutes
Grade: 4 - 6
Review: Alberta Education

This program examines fractions and ways of adding mixed numbers.

ELEMENTARY MATHEMATICS: BETWEEN RATIONAL NUMBERS

Publisher: General Learning Corporation / 1972 / Video
Distributor: ACCESS / 1972 / 11 minutes
Grade: 4 - 6
Review: Alberta Education

This program explores the computation of rational numbers and fractions.

ELEMENTARY MATHEMATICS: BETWEEN THE WHOLE NUMBERS

Publisher: General Learning Corporation / 1972 / Video
Distributor: ACCESS / No Charge / 12 minutes
Grade: 4 - 6
Review: Alberta Education

This program examines the concept of whole numbers and their relevance.

ELEMENTARY MATHEMATICS: COMPARING RATIONAL NUMBERS

Publisher: General Learning Corporation / 1972 / Video
Distributor: ACCESS / No Charge / 8 minutes
Grade: 4 - 6
Review: Alberta Education

This program examines rational numbers through animation.

ELEMENTARY MATHEMATICS: DIVIDING WITH FRACTIONS

Publisher: General Learning Corporation / 1972 / Video
Distributor: ACCESS / No Charge / 12 minutes
Grade: 4 - 6
Review: Alberta Education

This program examines dividing fractions using the reciprocal method.

ELEMENTARY MATHEMATICS: EQUIVALENT FRACTIONS

Publisher: General Learning Corporation / 1972 / Video
Distributor: ACCESS / No Charge / 10 minutes
Grade: 4 - 6
Review: Alberta Education

This program describes equivalent fractions, what they are and when they are used.

ELEMENTARY MATHEMATICS: MULTIPLYING WITH FRACTIONS

Publisher: General Learning Corporation / 1972 / Video
Distributor: ACCESS / No Charge / 8 minutes
Grade: 4 - 6
Review: Alberta Education

This program uses an animated rain cloud to show how to multiply fractions.

ELEMENTARY MATHEMATICS: RATIO

Publisher: General Learning Corporation / 1972 / Video
Distributor: ACCESS / No Charge / 8 minutes
Grade: 4 - 6
Review: Alberta Education

This program examines ratios using animation.

ELEMENTARY MATHEMATICS: RECIPROCALS

Publisher: General Learning Corporation / 1972 / Video
Distributor: ACCESS / No Charge / 10 minutes
Grade: 4 - 6
Review: Alberta Education

This program examines computation with fractions emphasizing reciprocals.

ELEMENTARY MATHEMATICS: RECIPROCALS AND INVERSES

Publisher: General Learning Corporation / 1972 / Video
Distributor: ACCESS / No Charge / 10 minutes
Grade: 4 - 6
Review: Alberta Education

This program examines computation with fractions emphasizing reciprocals and inverses.

ELEMENTARY MATHEMATICS: SHORTCUTS IN MULTIPLYING WITH FRACTIONS

Publisher: General Learning Corporation / 1972 / Video
Distributor: ACCESS / No Charge / 10 minutes
Grade: 4 - 6
Review: Alberta Education

This program examines how to multiply fractions using shortcuts.

ELEMENTARY MATHEMATICS: SUBTRACTING WITH FRACTIONS

Publisher: General Learning Corporation / 1972 / Video
Distributor: ACCESS / No Charge / 11 minutes
Grade: 4 - 6
Review: Alberta Education

This program examines how to subtract fractions.

ELEMENTARY MATHEMATICS: SUBTRACTING WITH MIXED NUMERALS

Publisher: General Learning Corporation / 1972 / Video
Distributor: ACCESS / No Charge / 9 minutes
Grade: 4 - 6
Review: Alberta Education

This program examines how to subtract mixed numerals.

ELEMENTARY MATHEMATICS: USING EQUIVALENT FRACTIONS

Publisher: General Learning Corporation / 1972 / Video
Distributor: ACCESS / No Charge / 8 minutes
Grade: 4 - 6
Review: Alberta Education

This program describes how to compute fractions that are equivalent.

EXPLORING MATH: PATTERNS AND FUNCTIONS

Publisher: Guidance Associates / 1977 / Kit
Distributor: Guidance Associates / $59.50
Grade: 3 - 4
Review: Calgary Public

This kit presents concepts necessary for understanding certain types of mathematical patterns. The kit includes 1 filmstrip, 1 cassette, 1 record and scripts.

EXPLORING WITH COMPUTERS

Publisher: Julian Messner / 1981 / Print
Distributor: General Publishing / $9.00 / 64 pages
Grade: 4 - 6
Review: Alberta Education

This book discusses how computers work, their types, uses, misuses, computers of the future and careers in the field. Activities are outlined that do not require a computer. May be useful for research projects by good readers.

F

FARM MATHS

Publisher: Macdonald Educational / 1974 / Print
Distributor: G.L.C. Publishers / $3.33 / 28 pages
Grade: 1 - 3
Review: Alberta Education

A richly illustrated book that challenges students to look for ways that everyday objects and activities are related to mathematics using the theme of the farm.

FAVORITE PROBLEMS

Publisher: Dale Seymour / ? / Print
Distributor: Spectrum / $23.95
Grade: 5 and 6
Review: Alberta Education

A book of 48 reproducible worksheets and a calendar style set of posters displaying problems.

FRACTION ACTION

Publisher: Hayes Publishing Ltd. / 1980 / Print
Distributor: Hayes Publishing Ltd.
Grade: 2 - 6
Review: Alberta Education

A set of two student workbooks on fractions.

FRACTION CONCEPTS

Publisher: Allyn and Bacon / 1981 / Print
Distributor: Allyn and Bacon
Grade: 2 - 6
Review: Alberta Education

A set of seven student workbooks on fraction concepts.

FRACTION PRIMER

Publisher: Hayes Publishing / 1980 / Print
Distributor: Hayes Publishing Ltd. / 32 pages
Grade: 1 - 6
Review: Alberta Education

An introductory student workbook on fractions.

FUN WITH ADDITION AND SUBTRACTION

Publisher: Apple Press / 1974 / Print
Distributor: G.L.C. Publishers / $8.95 / 24 pages
Grade: 3 and 4
Review: Alberta Education

Drill and practice spirit duplication sheets.

FUN WITH FRACTIONS

Publisher: Apple Press / 1974 / Print
Distributor: G.L.C. Publishers / $8.95 / 24 pages
Grade: 3 and 4
Review: Alberta Education

Drill and practice spirit duplication sheets.

FUN WITH MULTIPLICATION AND DIVISION

Publisher: Apple Press / 1974 / Print
Distributor: G.L.C. Publishers / $8.95
Grade: 3 and 4
Review: Alberta Education

Drill and practice spirit duplication sheets.

FUN WITH NUMBERS

Publisher: Apple Press / 1974 / Print
Distributor: G.L.C. Publishers / $8.95 / 24 pages
Grade: 3 and 4
Review: Alberta Education

Drill and practice spirit duplication sheets.

G

GARAGE MATHS

Publisher: Macdonald Educational / 1974 / Print
Distributor: G.L.C. Publishers / $3.33 / 28 pages
Grade: 1 - 3
Review: Alberta Education

A richly illustrated book that challenges students to look for ways that everyday objects and activities are related to mathematics using the theme of the garage.

GEOMETRICS

Publisher: Hayes Publishing Ltd. / 1980 / Print
Distributor: Hayes Publishing Ltd. / 32 pages
Grade: 1 - 6
Review: Alberta Education

A set of two student workbooks on geometric shapes.

GOING METRIC THE FUN WAY

Publisher: Doubleday / 1980 / Print
Distributor: Doubleday / $9.95
Grade: 5 - 8
Review: Calgary Public

This book presents the metric system humourously through upbeat activities, jokes, puzzles, riddles, tricks and stories.

H

HOW MUCH? HOW MANY?

Publisher: Denoyer-Geppert AV / 1979 / Kit
Distributor: Denoyer-Geppert AV / $162.00
Grade: K - 2
Review: Calgary Public

This kit introduces beginning math concepts. The kit includes 6 filmstrips, 6 cassettes and a teacher's guide.

HOW TO DEVELOP PROBLEM SOLVING USING A CALCULATOR

Publisher: National Council of Teachers of Mathematics / 1981 / Print
Distributor: School Book Branch / $5.20 / 42 pages
Grade: Teacher Reference
Review: Alberta Education

A set of 24 worksheets for use with a calculator for faster problem solving skills such as finding patterns, organizing items in a list, making charts and estimating. The author emphasizes Polya's four steps of problem solving. Activities relate to whole number addition, subtraction, multiplication, combined operations; decimals; percents; and geometry.

HOW TO REALLY FOOL YOURSELF

Publisher: Lippincott / 1981 / Print
Distributor: Lippincott / $8.89 / 145 pages
Grade: 5 - 8
Review: Edmonton Public

A collection of a number of examples to explain how and why the senses can be fooled.

I

INDIVIDUALIZED COMPUTATION

Publisher: Curriculum Developing Associates / 1974 / Print
Distributor: G.L.C. Publishers
Grade: 4 - 6
Review: Alberta Education

A set of twelve student workbooks dealing with patterns, hundreds charts, games, the four mathematics operations and whole numbers.

INDIVIDUALIZED COMPUTATION (Teacher's Edition)

Publisher: Curriculum Developing Associates / 1974 / Print
Distributor: G.L.C. Publishers
Grade: Teacher Reference
Review: Alberta Education

These booklets are the same as the set of twelve student workbooks, but have comments and answers for the teacher.

IT FIGURES: DECIDING WHEN TO USE MULTIPLICATION

Publisher: AIT / 1982 / Video
Distributor: ACCESS / No Charge / 14 minutes
Grade: 4 - 6
Review: Alberta Education

Through a dramatic and animated approach this program shows when to apply the skill of multiplying.

IT FIGURES: DECIDING WHEN TO USE SUBTRACTION

Publisher: AIT / 1982 / Video
Distributor: ACCESS / No Charge / 15 minutes
Grade: 4 - 6
Review: Alberta Education

Through a dramatic and animated approach this program illustrates the basic concept of subtraction.

IT FIGURES: LOOKING AT OBJECTS FROM DIFFERENT POSITIONS

Publisher: AIT / 1982 / Video
Distributor: ACCESS / No Charge / 13 minutes
Grade: 4 - 6
Review: Alberta Education

Through a dramatic and animated approach this program illustrates how our perception of objects changes from different positions.

IT FIGURES: MEASUREMENT

Publisher: Agency For Inst. TV / 1982 / Video
Distributor: ACCESS / No Charge / 14 minutes
Grade: 4 - 6
Review: Alberta Education

Through a dramatic and animated approach this program shows how to measure property with suitable measuring tools.

IT FIGURES: PROBLEM SOLVING - ACTING IT OUT

Publisher: Agency For Inst. TV / 1982 / Video
Distributor: ACCESS / No Charge / 14 minutes
Grade: 4 - 6
Review: Alberta Education

Through a dramatic and animated approach this program illustrates how acting it out is a useful tool in problem solving strategy.

IT FIGURES: PROBLEM SOLVING - DRAWING A PICTURE

Publisher: Agency For Inst. TV / 1982 / Video
Distributor: ACCESS / No Charge / 14 minutes
Grade: 4 - 6
Review: Alberta Education

Through a dramatic and animated approach this program illustrates how drawing a picture is a useful tool in problem solving strategy.

IT FIGURES: UNDERSTANDING PLACE VALUE

Publisher: Agency For Inst. TV / 1982 / Video
Distributor: ACCESS / No Charge / 14 minutes
Grade: 4 - 6
Review: Alberta Education

Through a dramatic and animated approach this program illustrates the importance of place value.

IT FIGURES: USING DIVISION

Publisher: Agency For Inst. TV / 1982 / Video
Distributor: ACCESS / No Charge / 14 minutes
Grade: 4 - 6
Review: Alberta Education

Through a dramatic and animated approach this program shows when to apply the skill of multiplying.

IT FIGURES: USING ESTIMATION

Publisher: Agency For Inst. TV / 1982 / Video
Distributor: ACCESS / No Charge / 14 minutes
Grade: 4 - 6
Review: Alberta Education

Through a dramatic and animated approach this program illustrates estimating of time and money.

IT FIGURES: USING FRACTIONS

Publisher: Agency For Inst. TV / 1982 / Video
Distributor: ACCESS / No Charge / 14 minutes
Grade: 4 - 6
Review: Alberta Education

Through a dramatic and animated approach this program illustrates several examples where fractions are used, showing that fractions consist of equal sized parts.

IT FIGURES: USING MENTAL COMPUTATION

Publisher: Agency For Inst. TV / 1982 / Video
Distributor: ACCESS / No Charge / 14 minutes
Grade: 4 - 6
Review: Alberta Education

Through a dramatic and animated approach this program illustrates two different methods for adding mentally, the "left-right" method and the "plus-minus" method.

IT FIGURES: USING MULTIPLICATION AND ADDITION

Publisher: Agency For Inst. TV / 1982 / Video
Distributor: ACCESS / No Charge / 14 minutes
Grade: 4 - 6
Review: Alberta Education

Through a dramatic and animated approach this program illustrates how grouping and addition are related to multiplication.

J

THE JUNIOR COUNTING BOARD

Publisher: Spectrum / ? / Kit
Distributor: Spectrum / $10.60
Grade: 1 - 3
Review: Alberta Education

A counting board with the holes clearly numbered with the set of counting numbers from 1 to 100 with odd and even numbers in different colours. The board is 30 x 30 cm.

K

KATIE AND THE COMPUTER

Publisher: Creative Computing Press / 1979 / Print
Distributor: Creative Computing Press / $9.00 / 92 pages
Grade: 2 - 4
Review: Alberta Education

Using a storybook format with full colour illustrations, this publication explains how computers work. Katie "falls" inside her Dad's home computer where she journeys through Cyberia meeting Software Colonel, the Bytes, the Table Manager and even a ferocious Program Bug.

KEEP UP WITH THE TIMES

Publisher: Modern Curriculum Press / ? / Print
Distributor: Modern Curriculum Press
Grade: 3 - 4
Review: Alberta Education

A set of 8 booklets on multiplication and division. Questions range from easy to challenging.

KEY MATH ATTRIBUTE BLOCKS

Publisher: American Guidance Service / 1980 / Kit
Distributor: Psycan / $45.00
Grade: K - 3
Review: Calgary Public

A collection of 60 plastic blocks of high quality that can be used for a wide variety of activities including probability, numeration, geometry, fractions, etc.

KEY MATH BALANCE

Publisher: American Guidance Service / 1980 / Kit
Distributor: Psycan / $45.00
Grade: 1 - 3
Review: Calgary Public

This balance is quality built and has many math uses, although it does not use SI metric language. This kit contains 1 balance scale, 4 trays, 48 cubes and a guide.

KEY MATH BOARDS

Publisher: American Guidance Service / 1980 / Kit
Distributor: Psycan / $80.00
Grade: K - 6
Review: Calgary Public

A very versatile kit containing strong durable parts and excellent guide. This kit contains 4 peg/grid boards (24.5 cm x 24.5 cm), 100 cubes, rubber bands, 4 tumblers and a guide.

KEY MATH CARD DECKS

Publisher: American Guidance Service / 1980 / Game
Distributor: Psycan / $56.00
Grade: 1 - 3
Review: Calgary Public

A collection of 16 games designed to supplement instruction in numeration, geometry, fractions, computation, measurement, money (U.S.) and time.

KEY MATH CHIPS

Publisher: American Guidance Service / 1980 / Kit
Distributor: Psycan / 1980
Grade: K - 6
Review: Calgary Public

An excellent manipulative tool for developing number concepts. The kit contains 280 plastic numbered squares and a guide.

KEY MATH TUMBLERS

Publisher: American Guidance Service / 1980 / Kit
Distributor: Psycan / $18.00
Grade: K - 6
Review: Calgary Public

This kit can be used in a great variety of activities ranging in difficulty and covering geometry, computation, money, time, etc., as well as math games. The kit contains 24 tumblers, 2 sheets of decals, and a guide.

KEYSTROKES - BOOK A, EXPLORING NEW TOPICS

Publisher: Creative Publications / 1980 / Print
Distributor: School Book Branch / $9.45 / 58 pages
Grade: 2 - 3
Review: Alberta Education

This booklet contains a wide variety of classroom-tested calculator activities and is designed for use with a four-function calculator with algebraic logic and an eight-digit display.

KEYSTROKES - BOOK B, COUNTING AND PLACE VALUE

Publisher: Creative Publications / 1980 / Print
Distributor: School Book Branch / $8.80 / 58 pages
Grade: 3 - 6
Review: Alberta Education

This booklet contains a wide variety of classroom-tested calculator activities dealing with counting and place value. The activities are designed for use with a four-function calculator with algebraic logic and an eight-digit display.

KEYSTROKES - BOOK C, ADDITION AND SUBTRACTION

Publisher: Creative Publications / 1979 / Print
Distributor: School Book Branch / $8.80 / 57 pages
Grade: 4 - 6
Review: Alberta Education

This booklet contains a wide variety of classroom-tested calculator activities dealing with addition and subtraction skills. Included are activities in counting, basic facts, patterns, problem solving, estimation, and application through word problems. The activities are designed for use with a four-function calculator with algebraic logic and an eight-digit display.

KEYSTROKES - BOOK D, MULTIPLICATION AND DIVISION

Publisher: Creative Publications / 1979 / Print
Distributor: School Book Branch / $9.45 / 88 pages
Grade: 5 - 8
Review: Alberta Education

This booklet contains a wide variety of classroom-tested calculator activities dealing with multiplication and division skills. Activities focus on repeated addition, repeated subtraction, basic facts, estimation, and problem solving. The activities are designed for use with a four-function calculator with algebraic logic and an eight-digit display.

L

LETS PATTERN BLOCK IT

Publisher: Activity Resource Company / ? / Print
Distributor: Spectrum / $16.50
Grade: 3 - 6
Review: Alberta Education

This publication helps children understand the relationship between geometry and numbers. Topics include fractions, perimeter, area, lines of symmetry, time and logic.

LISTEN TO SHAPE

Publisher: Watts / 1979 / Print
Distributor: Watts / $4.90
Grade: K - 6
Review: Edmonton Public

Containing excellent photography, this book shows how shapes such as the square, circle, and triangle are found in nature.

LOGO FOR THE APPLE II

Publisher: Byte Publications / 1982 / Print
Distributor: Terrapin / $18.00 / 228 pages
Grade: Teacher Reference
Review: Alberta Education

A comprehensive teacher resource on LOGO including programming procedures, projects in Turtle Geometry, work space, filing, debugging, lists, writing interactive programs, and a glossary of LOGO primitive commands.

M

THE MAD MINUTE

Publisher: Addison-Wesley / ? / Print
Distributor: Addison-Wesley
Grade: 1 - 8
Review: Alberta Education

A collection of speed drills on basic mathematics operations and properties with black line masters.

MATH ALL AROUND US

Publisher: West Disney Educ. Media / 1979 / Kit
Distributor: McIntyre Educ. Media / $177.00
Grade: 3 - 5
Review: Calgary Public

Disney characters demonstrate the benefits of knowing math and help to teach basic skill techniques; they show the importance of math in everyday situations. The kit contains some U.S. content and is not metric.

MATH DRILL (VERSION 3.01)

Publisher: ECR Educ. Consultants / ? / Computer
Distributor: Bell and Howell / $350.00 / 2 Disks
Grade: 3 - 5
Review: Alberta Education

A computer software package, in the Apple format, that generates drill questions. Each grade is divided into 24 chapters and each chapter consists of a pre-test, five lessons and a post-test. The content covers whole numbers, decimals and metrics using fundamental math operations.

MATH LAB EXPERIENCES FOR CHILDREN

Publisher: Action Math Associates / ? / Print
Distributor: Setsco Educational / $52.00
Grade: K - 6
Review: Alberta Education

A series of four books dealing with graphing, measurement, computation, numeration, geometry, fractions and probability.

MATH PATROL 2: ADDITION - PART 1

Publisher: Ontario Educ. Comm. Authority / 1978 / Video
Distributor: ACCESS / No Charge / 14 minutes
Grade: 1 - 3
Review: Alberta Education

This program covers a range of math skills and concepts with an emphasis on addition facts greater than 5 and less than 15.

MATH PATROL 2: ADDITION - PART 2

Publisher: Ontario Educ. Comm. Authority / 1978 / Video
Distributor: ACCESS / No Charge / 14 minutes
Grade: 1 - 3
Review: Alberta Education

Explores value to three places - ones, tens and hundreds - and emphasizes two-digit addition without regrouping.

MATH PATROL 2: FRACTIONS

Publisher: Ontario Educ. Comm. Authority / 1978 / Video
Distributor: ACCESS / No Charge / 14 minutes
Grade: 1 - 3
Review: Alberta Education

Fractions in their regular notation and in decimal notation are taught. Emphasis is placed upon the equality of fractional parts when a whole object is partitioned.

MATH PATROL 2: LENGTH

Publisher: Ontario Educ. Comm. Authority / 1978 / Video
Distributor: ACCESS / No Charge / 14 minutes
Grade: 1 - 3
Review: Alberta Education

Concepts of comparison, kinds of measurement units, and nonstandardized and standardized measurements are explored. Metres and centimetres are introduced.

MATH PATROL 2: MATH, WHO NEEDS IT?

Publisher: Ontario Educ. Comm. Authority / 1978 / Video
Distributor: ACCESS / No Charge / 14 minutes
Grade: 1- 3
Review: Alberta Education

Reviews many of the experiences children have had. It underlines the importance of mathematics in our world today.

MATH PATROL 2: SHAPES

Publisher: Ontario Educ. Comm. Authority / 1978 / Video
Distributor: ACCESS / No Charge / 14 minutes
Grade: 1 - 3
Review: Alberta Education

Basic shapes and two-dimensional geometry are introduced.

MATH PATROL 2: SOLIDS

Publisher: Ontario Educ. Comm. Authority / 1978 / Video
Distributor: ACCESS / No Charge / 14 minutes
Grade: 1 - 3
Review: Alberta Education

Investigates the way in which objects move and develops definitions for geometric formations based upon movement.

MATH PATROL 2: SUBTRACTION - PART 1

Publisher: Ontario Educ. Comm. Authority / 1978
Distributor: ACCESS / No Charge / 14 minutes
Grade: 1 - 3
Review: Alberta Education

Simple examples are used but children should be aware of the concept of subtraction and the word minus before seeing this program.

MATH PATROL 2: SUBTRACTION - PART 2

Publisher: Ontario Educ. Comm. Authority / 1978
Distributor: ACCESS / No Charge / 14 minutes
Grade: 1 - 3
Review: Alberta Education

Deals entirely with subtraction and addition facts which do not involve regrouping.

MATH PATROL 2: TRANSFORMATION

Publisher: Ontario Educ. Comm. Authority / 1978 / Video
Distributor: ACCESS / No Charge / 14 minutes
Grade: 1 - 3
Review: Alberta Education

Serves as a very early guide to motion geometry. The terms 'slide' and 'turn' are taught.

MATH PATROL 3: ADDITION - PART 3

Publisher: Ontario Educ. Comm. Authority / 1978 / Video
Distributor: ACCESS / No Charge / 14 minutes
Grade: 1 - 3
Review: Alberta Education

Emphasizes addition facts from 0 to 100, mental calculations, re-grouping, and the use of the hundred board as an attack method for addition.

MATH PATROL 3: ADDITION - PART 4

Publisher: Ontario Educ. Comm. Authority / 1978 / Video
Distributor: ACCESS / No Charge / 14 minutes
Grade: 1 - 3
Review: Alberta Education

Explores two and three-digit numbers. It develops two-digit addition with re-grouping and provides basic examples for extensions.

MATH PATROL 3: AREA

Publisher: Ontario Educ. Comm. Authority / 1978 / Video
Distributor: ACCESS / No Charge / 14 minutes
Grade: 1 - 3
Review: Alberta Education

The fundamental aspects of area measurement are explored. It also takes first steps toward the creation of a formula.

MATH PATROL 3: DIVISION - PART 1

Publisher: Ontario Educ. Comm. Authority / 1978 / Video
Distributor: ACCESS / No Charge / 14 minutes
Grade: 1 - 3
Review: Alberta Education

Introduces the concept of division.

MATH PATROL 3: DIVISION - PART 2

Publisher: Ontario Educ. Comm. Authority / 1978 / Video
Distributor: ACCESS / No Charge / 14 minutes
Grade: 1 - 3
Review: Alberta Education

Uses primal methods introduced in Program 7 but endorses more direct methods on the basis of saved time.

MATH PATROL 3: MULTIPLICATION - PART 1

Publisher: Ontario Educ. Comm. Authority / 1978 / Video
Distributor: ACCESS / No Charge / 14 minutes
Grade: 1 - 3
Review: Alberta Education

Deals exclusively with attack methods for multiplication. (Children should understand the concept of multiplication before viewing this program.)

MATH PATROL 3: MULTIPLICATION - PART 2

Publisher: Ontario Educ. Comm. Authority / 1978 / Video
Distributor: ACCESS / No Charge / 14 minutes
Grade: 1 - 3
Review: Alberta Education

Arrays are used to attack individual facts to 81, as well as to demonstrate commutative and distributive properties of multiplication.

MATH PATROL 3: SYMMETRY

Publisher: Ontario Educ. Comm. Authority / 1978 / Video
Distributor: ACCESS / No Charge / 14 minutes
Grade: 1 - 3
Review: Alberta Education

Deals primarily with lines of symmetry and generating lines of symmetry.

MATH PROBLEMS: SOLVING 1

Publisher: BFA - CBS / 1980 / Kit
Distributor: Holt, Rinehart and Winston / $161.00
Grade: 2 - 3
Review: Calgary Public

This kit provides instruction and practice in solving problems, including reading the problem, developing a strategy, developing a model and practice problems. The kit contains 256 cards, 12 answer books and a guide.

MATH PROBLEMS: SOLVING 2

Publisher: BFA - CBS / 1979 / Kit
Distributor: Holt, Rinehart and Winston / $135.00
Grade: 4 - 5
Review: Calgary Public

This kit covers addition, subtraction, multiplication, division, measurement, fractions, and calculators. The kit contains 24 cards, 15 books and a teacher guide.

MATH SKILLS KIT

Publisher: Calgary Public / 1978 / Kit
Distributor: Calgary Public / $50.00
Grade: 3 - 6
Review: Calgary Public

This kit provides an opportunity to practice multiplication tables. The kit contains 12 cassettes, 30 worksheet masters and 3 posters.

MATHEMATICS FOR BEGINNERS

Publisher: Encyc. Britannica / 1980 / Kit
Distributor: Visual Educ. Centre / $51.00
Grade: K - 1
Review: Edmonton Public

This kit provides a simple introduction to counting and comparing objects in a set; addition and subtraction; and pennies, nickels and dimes. U.S. coins are shown. The kit contains 4 filmstrips and a teacher guide.

MATHEMATICS FOR ELEMENTARY SCHOOL TEACHERS

Publisher: Charles E. Merrill / ? / Print
Distributor: Charles E. Merrill / $15.00
Grade: Teacher Reference
Review: Alberta Education

The emphasis of this teacher reference is on problem solving. Calculators and computers are discussed with applications.

MATHEMATICS GAMES FOR CLASSROOM USE

Publisher: Silver Burdett / ? / Print
Distributor: G.L.C. Publications
Grade: Teacher Resource
Review: Alberta Education

An ideas book for the design and construction of card games and game boards. Fifteen games are described with construction information included.

MATHEMATICS: LEVEL A

Publisher: SRA / 1981 / Computer
Distributor: School Book Branch / $364.44 / 4 disks
Grade: 1 - 3
Review: Alberta Education

A computer software package, in the Apple and Atari 800 formats, that consists of drill exercises in the areas of addition, subtraction and whole numbers. Each of the units is developmental with a help mode if required.

MATHEMATICS: LEVEL B

Publisher: SRA / 1981 / Computer
Distributor: School Book Branch / $479.74 / 8 disks
Grade: 3 - 6
Review: Alberta Education

A computer software package, in the Apple and Atari 800 formats, that consists of drill exercises in the areas of addition, subtraction and whole numbers. In addition, multiplication, division, and fractions are included. Each of the units is developmental with a help mode if required.

MATHEMATICS: LEVEL C

Publisher: SRA / 1981 / Computer
Distributor: School Book Branch / $524.37 / 11 disks
Grade: 4 - 7
Review: Alberta Education

A computer software package, in the Apple and Atari 800 formats, that consists of drill exercises in the areas of addition, subtraction and whole numbers. In addition, multiplication, division, fractions, and decimals are included. Each of the units is developmental with a help mode if required.

MATHEMATICS THEIR WAY

Publisher: Addison-Wesley / 1976 / Print
Distributor: Addison-Wesley / $30.35 / 398 pages
Grade: Teacher Reference
Review: Alberta Education

An excellent teacher reference for teaching math concepts using manipulative materials. A set of black-line masters are also included.

MATHEMATICS ... A WAY OF THINKING

Publisher: Addison-Wesley / ? / Print
Distributor: Addison-Wesley / $20.00
Grade: Teacher Reference
Review: Alberta Education

A collection of teaching ideas and suggestions on applications, statistics, relationships, geometry, logical thinking.

MEASUREMENT

Publisher: Hayes Publishing Ltd. / 1980 / Print
Distributor: Hayes Publishing Ltd. / 32 pages
Grade: 1 - 6
Review: Alberta Education

A student workbook on measurement.

MEASUREMENT COMPARISONS

Publisher: January Productions / 1977 / Kit
Distributor: School Services of Canada / $75.00
Grade: K - 1
Review: Edmonton Public

This kit presents the concepts of measurement as follows; wide and narrow, big and little, heavy and light. The kit contains 4 tape cassettes and a teacher guide.

MEASURING GEOMETRIC SHAPES

Publisher: G.L.C. Publishers / ? / Print
Distributor: G.L.C. Publishers / $8.95
Grade: 5
Review: Alberta Education

A book of 24 duplication masters. This book contains material useful for extra practice in the measurement of perimeter and area.

MEDIA ACTIVITIES IN SCIENCE

Publisher: Houghton Mifflin / 1974 / Kit
Distributor: Houghton Mifflin / $52.00
Grade: 1 - 3
Review: Calgary Public

This kit introduces and reinforces the concepts of geometric and three dimensional shapes and symmetry. The kit contains 3 filmstrips, 18 transparencies and 9 duplication masters.

MEET THE COMPUTER

Publisher: Dodd, Mead and Co. / 1977 / Print
Distributor: Hollinger House / $8.00 / 47 pages
Grade: 6 - 7
Review: Alberta Education

Through text and visuals, this publication explains what computers are and how they work, with emphasis on the need for people to program and operate them. This publication is appropriate for research and enrichment activities.

METRIC MEASUREMENT

Publisher: Allyn and Bacon / 1981 / Print
Distributor: Allyn and Bacon
Grade: 2 - 6
Review: Alberta Education

A set of four student workbooks on metric measurement.

METRIC MEASUREMENT

Publisher: Hayes Publishing Ltd. / 1980 / Print
Distributor: Hayes Publishing Ltd. / 32 pages
Grade: 1 - 6
Review: Alberta Education

A student workbook on metric measurement.

METRICS: MAXWELL MOUSE IN THE LAND OF METRICS

Publisher: Creative Learning / 1975 / Kit
Distributor: Kahl's Inc. / $476.80
Grade: 3 - 5
Review: Calgary Public

Each filmstrip is to be used separately or in conjunction with accompanying worksheets. This kit is useful for introduction and reinforcement. The kit contains 4 filmstrips, 4 cassettes, 14 worksheets, and a teacher guide.

MINDSTORMS: CHILDREN, COMPUTERS AND POWERFUL IDEAS

Publisher: Basic Books Inc. / 1980 / Print
Distributor: Fitzhenry and Whiteside / $9.25
Grade: Teacher Reference
Review: Alberta Education

This teacher reference focuses on the LOGO computer language and explains how computers can be carriers of powerful ideas. The author argues that elementary children can easily learn to program and that computers can help children learn mathematics and other skills.

MIRA MATH ACTIVITY

Publisher: Mira Math Co. / ? / Print
Distributor: Spectrum / $4.25
Grade: 5 and 6
Review: Alberta Education

A book of black-line masters dealing with reflection, congruency and symmetry.

MIRROR MAGIC

Publisher: Lothrop / 1980 / Print
Distributor: Lothrop / $11.95 / 48 pages
Grade: 1 - 6
Review: Edmonton Public / Calgary Public

Easily accomplished experiments with different kinds of mirrors. Instructions for constructing periscopes, a kaleidoscope and a corner cube mirror.

MONEY

Publisher: Hayes Publishing Ltd. / 1980 / Print
Distributor: Hayes Publishing Ltd.
Grade: 1 - 6
Review: Alberta Education

A student workbook on money. Canadian money is depicted.

MORE NUMBERS

Publisher: Hayes Publishing Ltd. / 1980 / Print
Distributor: Hayes Publishing Ltd. / 32 pages
Grade: 1 - 6
Review: Alberta Education

An introductory student workbook on numeration.

MULTILINK ACTIVITY CARDS - SET I

Publisher: Spectrum / ? / Kit
Distributor: Spectrum / $36.60
Grade: 1 - 3
Review: Alberta Education

A package of 59 pupil activity cards and 11 teacher cards carefully structured to develop a full understanding of the abstract concept of numbers.

MULTILINK ACTIVITY CARDS - SET II

Publisher: Spectrum / ? / Kit
Distributor: Spectrum / $44.00
Grade: 1 - 3
Review: Alberta Education

A package of 78 pupil activity cards and 8 teacher cards that are designed as a direct follow up from Set I. The set is structured to develop a full understanding of the abstract concept of numbers.

MULTILINK COUNTING BOARD

Publisher: Spectrum / ? / Kit
Distributor: Spectrum / $22.35
Grade: 1 - 3
Review: Alberta Education

A board consisting of ten grooves to contain various numbers of cubes. The kit comes with fourteen removable tablets and a number guide board.

MULTILINK CUBES

Publisher: Spectrum / ? / Kit
Distributor: Spectrum / $10.40
Grade: 1 - 3
Review: Alberta Education

Manipulative 2 cm cubes that interlock on all six faces. Basic mathematical concepts such as graphing, number and place value can be explored. Comes with 10 each of 10 colours.

MULTILINK HANDBOOK

Publisher: Spectrum / ? / Print
Distributor: Spectrum / $2.95 / 32 pages
Grade: Teacher Reference
Review: Alberta Education

A fully illustrated handbook describing the basic skills of mathematics which can be covered with multilink cubes.

MULTILINK NUMBER TRACK

Publisher: Spectrum / ? / Kit
Distributor: Spectrum / $23.95
Grade: 1 - 3
Review: Alberta Education

Numbers from 1 to 100 are formed from 10 interlocking sections. The value of numbers depending upon their position is more clearly understood.

MULTILINK 100 PEGBOARD

Publisher: Spectrum / ? / Kit
Distributor: Spectrum / $16.50
Grade: 1 - 3
Review: Alberta Education

A strong transparent pegboard that can be used to build models, graphs or patterns with cubes.

MULTILINK PATTERN BOARDS

Publisher: Spectrum / ? / Kit
Distributor: Spectrum / $13.25
Grade: 1 - 3
Review: Alberta Education

A set of 10 boards showing the composition of the first ten numbers. The arrangement of recesses on the boards makes the difference between odd and even numbers very easy to see.

MULTIPLICATION AND DIVISION

Publisher: Hayes Publishing Ltd. / 1980 / Print
Distributor: Hayes Publishing Ltd.
Grade: 1 - 6
Review: Alberta Education

A set of three student workbooks on multiplication and division.

MULTIPLYING BY POWERS OF TEN

Publisher: Allyn and Bacon / 1981 / Print
Distributor: Allyn and Bacon / 12 pages
Grade: 2 - 6
Review: Alberta Education

A student workbook on powers of ten.

MY FRIEND THE COMPUTER

Publisher: T.S. Denison / 1981 / Print
Distributor: T.S. Denison / $5.00 / 96 pages
Grade: 6
Review: Alberta Education

A comprehensive unit on computer literacy designed to be used with or without computers.

MY FRIEND THE COMPUTER (Teacher's Guide)

Publisher: T.S. Denison / 1981 / Print
Distributor: T.S. Denison / $15.00 / 110 pages
Grade: Teacher Reference
Review: Alberta Education

A teacher reference to accompany the student version of "My Friend the Computer". Includes a multimedia bibliography, 40 duplicating masters, evaluation suggestions and detailed lesson plans.

N

A NEW TWIST

Publisher: Addison-Wesley / ? / Print
Distributor: Addison-Wesley / $11.52
Grade: 6
Review: Alberta Education

A collection of interesting problems. Some problems are designed for use with the calculator.

NOTES ON A TRIANGLE

Publisher: National Film Board / 1966 / 16 mm
Distributor: National Film Board / loan or sale / 5 minutes
Grade: 1 - 6
Review: Alberta Education

A geometric ballet using triangles as dancers. During the film the triangle splits into some 300 transformations, dividing and subdividing with grace and symmetry to the music of a waltz.

NUMBER TREASURY

Publisher: Dale Seymour / ? / Print
Distributor: Spectrum / $4.75
Grade: Teacher Reference
Review: Alberta Education

A teacher reference on calculator and computer problems.

NUMBERS

Publisher: Hayes Publishing Ltd. / 1980 / Print
Distributor: Hayes Publishing Ltd. / 32 pages
Grade: 1 - 6
Review: Alberta Education

A student workbook on numbers.

NUMERATION

Publisher: Hayes Publishing Ltd. / 1980 / Print
Distributor: Hayes Publishing Ltd. / 32 pages
Grade: 1 - 6
Review: Alberta Education

A student workbook on numeration.

O

ONE MORE AND ONE LESS: A NUMBER CONCEPT BOOK

Publisher: Crown / 1974 / Print
Distributor: General Publishing / $7.15
Grade: K - 1
Review: Calgary Public

A good first counting book and simple introduction to addition and subtraction. Each double spread adds one animal till there are 10; then subtracts one until there are none.

THE 1 TO 10 NUMBER TRACK

Publisher: Spectrum / ? / Kit
Distributor: Spectrum / $8.50
Grade: K - 1
Review: Alberta Education

A simple number track that enables the young child to see what is meant by the four basic operations.

P

PLACE VALUE AND ROUNDING

Publisher: G.L.C. Publishers / ? / Print
Distributor: G.L.C. Publishers / $8.95
Grade: 4
Review: Alberta Education

A book of 24 spirit duplicating masters dealing with place value and rounding to the nearest thousand.

PLAYGROUND MATHS

Publisher: Macdonald Educational / 1974 / Print
Distributor: G.L.C. Publishers / $3.33 / 28 pages
Grade: 1 - 3
Review: Alberta Education

A richly illustrated book that challenges students to look for ways that everyday objects and activities are related to mathematics using the theme of the playground.

POCKET CALCULATOR BOOK

Publisher: Osborne Electronics / 1982 / Print
Distributor: Hayes Publishing / $4.95 / 48 pages
Grade: 5 and 6
Review: Alberta Education

A brightly coloured and illustrated book on how the calculator works and how to make it work.

PRIMARY PATTERN BLOCK ACTIVITY CARDS

Publisher: Creative Teaching Association / 1974 / Kit
Distributor: Spectrum / $18.95 / 22 cards
Grade: 1 - 2
Review: Alberta Education

A set of 22 activity cards using pattern blocks (blocks not included). The skills reinforced are matching and following patterns.

PROBLEM SOLVING

Publisher: Hayes Publishing / 1980 / Print
Distributor: Hayes Publishing / $2.50 / 32 pages
Grade: 2-3
Review: Alberta Education

A booklet of problems using a 'space' theme.

PROBLEM SOLVING - A

Publisher: Hayes Publishing / 1982 / Print
Distributor: Hayes Publishing / $2.50 / 32 pages
Grade: 5 and 6
Review: Alberta Education

This publication is a very challenging workbook including logic, word and visual problems. A space theme is used throughout.

PROBLEM SOLVING - B

Publisher: Hayes Publishing / 1982 / Print
Distributor: Hayes Publishing / $2.50 / 32 pages
Grade: 5 and 6
Review: Alberta Education

This publication is a very challenging workbook including logic, word and visual problems. A space theme is used throughout.

PROBLEM SOLVING - C

Publisher: Hayes Publishing / 1982 / Print
Distributor: Hayes Publishing / $2.50 / 32 pages
Grade: 5 and 6
Review: Alberta Education

This publication is a very challenging workbook including logic, word and visual problems. A space theme is used throughout.

PROBLEM SOLVING: A BASIC MATHEMATICS GOAL

Publisher: Ohio Department of Education / ? / Print
Distributor: Dale Seymour / $9.50
Grade: Teacher Reference
Review: Alberta Education

Two booklets that illustrate problem solving strategies.

PUZZLE BOOKS FOR YOUR ENRICHMENT CENTRE

Publisher: Troubador Press / ? / Print
Distributor: Spectrum / $62.00
Grade: 4-8
Review: Alberta Education

A series of booklets on a variety of topics including Optricks, Maze Craze, Maze Cubes, Invisibles, Puzzles, Geometric Playthings and Optic Illusions.

Q

QUIZZLES

Publisher: Dale Seymour Publishers / ? / Print
Distributor: Spectrum / $6.60
Grade: 4 - 6
Review: Alberta Education

A book of black-line masters containing numerous logic problems. These problems are very challenging.

R

READING AND WRITING LARGE NUMBERS

Publisher: Allyn and Bacon / 1981 / Print
Distributor: Allyn and Bacon / 28 pages
Grade: 3 - 6
Review: Alberta Education

A student workbook on large numbers.

THE RECTICEL COUNTING BOARD

Publisher: Spectrum / ? / Kit
Distributor: Spectrum / $14.50
Grade: 3 - 7
Review: Alberta Education

A counting board with 15 rows of 29 holes per row. The board is 46 x 25.5 cm.

RHYTHMETIC

Publisher: National Film Board / 1956 / 16 mm
Distributor: National Film Board / loan or sale / 8 minutes
Grade: 1 - 6
Review: Alberta Education

In this film, the screen becomes a numerical free-for-all as digits meet in playful encounter, add and subtract, jostle, attack, and elude one another.

ROBOTS

Publisher: Usborne Publishing / 1979 / Print
Distributor: Hayes Publishing / $4.00 / 32 pages
Grade: 4-6
Review: Alberta Education

This book explains how robots, intelligent machines using advanced computer systems as their "brains", will help mankind run an increasingly complex world. Major topics include energy and resources, ecology and agriculture, health and medicine, and science and technology.

ROLLING MATH

Publisher: Instructo-McGraw-Hill / 1979 / Kit
Distributor: Thomas Howe Associates / $9.95
Grade: 1 - 3
Review: Calgary Public

Recommended for small groups or independent use, this set has a variety of games and puzzles to reinforce concepts of numerical sequence, number facts, addition, subtraction, multiplication and division.

S

SAND CASTLE

Publisher: National Film Board / 1977 / 16 mm
Distributor: National Film Board / loan or sale / 13 minutes
Grade: 3 - 6
Review: Alberta Education

A fable of great humor and appeal, this film is the story of the sandman and the creatures he sculpts out of the sand. Many geometric shapes can be identified throughout the film.

SEASIDE MATHS

Publisher: Macdonald Educational / 1974 / Print
Distributor: G.L.C. Publishers / $3.33 / 28 pages
Grade: 1 - 3
Review: Alberta Education

A richly illustrated book that challenges students to look for ways that everyday objects and activities are related to mathematics using a seaside theme.

SHAPE SILHOUETTES

Publisher: Metric Aids / ? / Kit
Distributor: National Scientific Products / $2.50
Grade: 1 - 6
Review: Calgary Public

This kit contains 9 geometric shapes made from strong transparent plastic and ranging in size from 13 cm to 4.5 cm. Good for use in math program when discussing and classifying shapes or could be used as manipulative objects.

SHAPES

Publisher: Hayes Publishing Ltd. / 1980 / Print
Distributor: Hayes Publishing Ltd. / 32 pages
Grade: 1 - 6
Review: Alberta Education

A student workbook on geometric shapes and graphing.

SILICON CHIPS AND YOU

Publisher: Beaufort / 1980 / Print
Distributor: General Publishing / $9.95 / 144 pages
Grade: 6 - 12
Review: Edmonton Public

This publication describes chips, their history, how they work and a look into their future. Very useful for both teachers and students.

SKATEBOARD PRACTICE

Publisher: Activity Resources Co. / Print
Distributor: Spectrum / $9.00
Grade: 1 - 4
Review: Alberta Education

A carefully sequenced publication for use with cuisenaire rods, base ten blocks and a balance beam. Topics include addition, subtraction, multiplication and division.

SKY WATCHERS OF AGES PAST

Publisher: Houghton Mifflin / 1982 / Print
Distributor: Houghton Mifflin / $10.95
Grade: 5 - 8
Review: Calgary Public

A summary of how ancient people used the solar system to tell time and record the passing of the seasons. Line and shade illustrations complement the text.

SMALL, MEDIUM, BIG

Publisher: Creative Toys / ? / Game
Distributor: Spectrum / $7.50
Grade: K - 1
Review: Alberta Education

A game designed to develop the capacity to identify and classify different sizes and proportions and to classify them in different groups. Directions are given in French as well as English.

SOLVE IT (Set A)

Publisher: Educational Teaching Aids / 1982 / Print
Distributor: Spectrum / $19.95 / 80 cards
Grade: 4 - 6
Review: Alberta Education

A set of activity cards dealing with tangrams and geoboard problems.

SOLVE IT (Set B)

Publisher: Educational Teaching Aids / 1982 / Print
Distributor: Spectrum / $19.95 / 70 cards
Grade: 4 - 6
Review: Alberta Education

A set of activity cards dealing with thought problems and problem solving including cycles, superstitions.

SOLVE IT (Set C)

Publisher: Educational Teaching Aids / 1982 / Print
Distributor: Spectrum / $19.95 / 74 cards
Grade: 4 - 6
Review: Alberta Education

A set of activity cards dealing with attribute problems, geometric puzzlers and word problems.

SOLVE IT (Set D)

Publisher: Educational Teaching Aids / 1982 / Print
Distributor: Spectrum / $19.95 / 78 cards
Grade: 4 - 6
Review: Alberta Education

A set of activity cards dealing with money, value and pattern problems.

SOLVE IT (Set E)

Publisher: Educational Teaching Aids / 1982 / Print
Distributor: Spectrum / $19.95 / 72 cards
Grade: 4 - 6
Review: Alberta Education

A set of activity cards dealing with estimation, word problems, math codes and thought games.

SPACES, SHAPES AND SIZES

Publisher: Thomas Y. Crowell / 1980 / Print
Distributor: Fitzhenry and Whiteside / $9.90
Grade: 1 - 3
Review: Calgary Public

This publication explains the concept of volume and suggests some good physical experiments and good thinking exercises.

SPECTRUM SCHOOL BALANCE

Publisher: Spectrum / ? / Kit
Distributor: Spectrum / $34.00
Grade: 3 - 6
Review: Alberta Education

This balance has a capacity of 2000 g and is readable to 2 g with a zero adjust knob, two removable 10 cm pans.

STEPPING INTO SCIENCE: SET 1: HOW BIG IS A STICK?

Publisher: Regensteiner-Teaching Resources Films / 1971 / Kit
Distributor: A.I.M. Educational Aids / $26.40
Grade: 1 - 3
Review: Calgary Public

A filmstrip and cassette that introduces nonstandard measurements.

STEPPING INTO SCIENCE: SET 1: SHAPES, SIDES, CURVES, AND CORNERS

Publisher: Regensteiner-Teaching Resources Films / 1970 / Kit
Distributor: A.I.M. Educational Aids / $26.40
Grade: 1 - 3
Review: Calgary Public

A filmstrip and cassette that develops the space/time relationship.

STEPPING INTO SCIENCE: SET 2: MANY IS HOW MANY?

Publisher: Teaching Resources Films / 1973 / Kit
Distributor: A.I.M. Educational / $108.00
Grade: 1 - 2
Review: Calgary Public

Five filmstrips and 5 cassettes that introduce some basic science concepts that also relate to mathematics (measuring, observing, classifying, inferring).

STEPPING STONES: GEOMETRIC SHAPES

Publisher: Instructo-McGraw-Hill / 1974 / Kit
Distributor: Thomas Howe Associates / $18.70
Grade: 1 - 2
Review: Calgary Public

A set of durable, non-skid, colourful squares to be used literally as stepping stones. Can be used to introduce geometric shapes: circle, square, triangle, rectangle and concepts of comparative size.

STEPPING STONES: NUMBER PATTERNS

Publisher: Instructo-McGraw-Hill / 1973 / Kit
Distributor: Thomas Howe Associates / $18.70
Grade: K - 3
Review: Calgary Public

A set of durable, non-skid, colourful squares to be used literally as stepping stones. Can be used to introduce and reinforce concepts such as more than and less than, sets and subsets, rational counting, etc.

STEPPING STONES: NUMERALS

Publisher: Instructo-McGraw-Hill / 1973 / Kit
Distributor: Thomas Howe Associates / $18.70
Grade: K - 2
Review: Calgary Public

A set of durable, non-skid, colourful squares to be used literally as stepping stones. Can be used to introduce numbers 1-10, counting by 2's, adding and subtracting facts to 10.

STOP AND LOOK! ILLUSIONS

Publisher: Troll / 1981 / Print
Distributor: Fitzhenry and Whiteside / $6.92 / 47 pages
Grade: 4 - 6
Review: Edmonton Public

Each set of illusions is accompanied by clear directions and colourful illustrations.

STORY PROBLEMS

Publisher: Hayes Publishing / 1981 / Print
Distributor: Hayes Publishing / $2.50
Grade: 3
Review: Alberta Education

A book of problems related to familiar nursery rhymes. The problems require students to add, subtract, multiply or divide.

STORY PROBLEMS

Publisher: Hayes Publishing Ltd. / 1980 / Print
Distributor: Hayes Publishing Ltd.
Grade: 3 - 6
Review: Alberta Education

A set of two student workbooks on story problems.

SUBTRACTING EXPRESS

Publisher: Creative Teaching Press / 1977 / Game
Distributor: Thomas Howe Associates / $6.20
Grade: 2 - 3
Review: Calgary Public

An excellent game for encouraging quick recall of basic subtraction facts.

SYMMETRY

Publisher: Creative Toys / ? / Game
Distributor: Spectrum / $7.50
Grade: 1-3
Review: Alberta Education

A game that teaches and reinforces symmetry concepts using cards that must be matched. The instructions are in French and English.

T

TABLES AND GRAPHS A

Publisher: Dale Seymour / 1981 / Print
Distributor: Spectrum / $7.80 / 54 pages
Grade: 3 - 5
Review: Alberta Education

A set of blackline masters on tables and graphs, including how to make tables and graphs and how to interpret tables and graphs.

TABLES AND GRAPHS B

Publisher: Dale Seymour / 1981 / Print
Distributor: Spectrum / $7.80 / 53 pages
Grade: 6
Review: Alberta Education

A set of blackline masters on tables and graphs, including how to make tables and graphs and how to interpret tables and graphs.

TCHOU - TCHOU

Publisher: National Film Board / 1972 / 16mm
Distributor: National Film Board / loan or sale / 14 minutes
Grade: 3 - 6
Review: Alberta Education

A children's fantasy where building blocks and music effects do everything. Blocks represent a make-believe city and the two children who play in it. Blocks even act out the story when an angry dragon appears on the scene. Many geometric shapes can be identified throughout the film.

TEACHER'S GUIDE TO COMPUTERS IN THE ELEMENTARY SCHOOL

Publisher: International Council for Computers in Education / 1980 / Print
Distributor: International Council for Computers in Education / $3.00 / 48 pages
Grade: Teacher Reference
Review: Alberta Education

A useful introduction to the educational uses of the computer, computer terminology, the impact of computers on curriculum and an outline of what elementary children should learn about computers.

TEACHING BASIC BIT BY BIT

Publisher: Lawrence Hall of Science / 1981 / Print
Distributor: Lawrence Hall of Science / $11.50 / 166 pages
Grade: Teacher Reference
Review: Alberta Education

This is a manual for teachers to use in introducing BASIC programming to students. Individual and group activities are included.

TEACHING PROBLEM SOLVING: WHAT, WHY AND HOW

Publisher: Dale Seymour / 1982 / Print
Distributor: Spectrum / $4.75 / 60 pages
Grade: Teacher Reference
Review: Alberta Education

A teacher reference on problem solving including sample problems. The emphasis of this publication is on making problem solving an integral part of mathematics.

THINKABOUT: APPROXIMATING

Publisher: Agency for Instr. TV / 1979 / Video
Distributor: ACCESS / No Charge / 15 minutes
Grade: 4 - 6
Review: Alberta Education

A group of students are shown preparing for a play. When they begin to design and build the sets they are faced with the problem of estimating. They must then decide how precise their work needs to be in order to be suitable for the play.

THINKABOUT: BLOCKBUSTING

Publisher: Agency for Instr. TV / 1979 / Video
Distributor: ACCESS / No Charge / 15 minutes
Grade: 4 - 6
Review: Alberta Education

A magician suggests that blockbusting can help solve problems that seem beyond solution. Three blockbusting techniques are presented - checking ideas, picturing them, and pretending.

THINKABOUT: CALM YOUR JITTERS

Publisher: Agency For Instr. TV / 1980 / Video
Distributor: ACCESS / No Charge / 15 minutes
Grade: 4 - 6
Review: Alberta Education

Provides some suggestions for dealing with anxiety during tests.

THINKABOUT: CLASSIFYING INFORMATION

Publisher: Agency For Instr. TV / 1979 / Video
Distributor: ACCESS / No Charge / 15 minutes
Grade: 4 - 6
Review: Alberta Education

A student is assigned the task of writing a report on an historic hotel. After collecting information, she is faced with the problem of arranging the information in an organized manner. This program follows her efforts to classify information.

THINKABOUT: CLASSIFYING OBJECTS

Publisher: Agency For Instr. TV / 1979 / Video
Distributor: ACCESS / No Charge / 15 minutes
Grade: 4 - 6
Review: Alberta Education

Dramatizes the efforts of a family to classify objects for a garage sale. Different methods of classification are shown.

THINKABOUT: ESTIMATING

Publisher: Agency For Instr. TV / 1979 / Video
Distributor: ACCESS / No Charge / 15 minutes
Grade: 4 - 6
Review: Alberta Education

The role of estimation in problem solving is examined in this dramatization of a two-day canoe race.

THINKABOUT: FIND YOUR GUIDE

Publisher: Agency For Instr. TV / 1979 / Video
Distributor: ACCESS / No Charge / 15 minutes
Grade: 4 - 6
Review: Alberta Education

Introduces a problem solving technique based on the key words "Hey, wait!", "Think!" and "So!".

THINKABOUT: GET AHEAD WITH GOALS

Publisher: Agency For Instr. TV / 1979 / Video
Distributor: ACCESS / No Charge / 15 minutes
Grade: 4 - 6
Review: Alberta Education

Leon realizes he must learn how to plan his goals in order to achieve them. To become a good bicycle racer he must demonstrate motivation, planning and reviewing ability and work on it step-by-step.

THINKABOUT: HANGING IN THERE

Publisher: Agency For Instr. TV / 1980 / Video
Distributor: ACCESS / No Charge / 15 minutes
Grade: 4 - 6
Review: Alberta Education

The story developed in *A Matter of Time* and *There's Always A Risk* continues the demonstration of the problem solving process. The need for persistence and as well the use of appropriate resources are illustrated.

THINKABOUT: MAKE SOMETHING NEW

Publisher: Agency For Instr. TV / 1980 / Video
Distributor: ACCESS / No Charge / 15 minutes
Grade: 4 - 6
Review: Alberta Education

Considers some creative techniques associated with the idea generating process.

THINKABOUT: MAKING YOUR POINT

Publisher: Agency For Instr. TV / 1979 / Video
Distributor: ACCESS / No Charge / 15 minutes
Grade: 4 - 6
Review: Alberta Education

Follows the efforts of a basketball player to convince a coach that he should be selected for the team. Methods of effective communication are stressed.

THINKABOUT: MAPS AND MODELS

Publisher: Agency For Instr. TV / 1980 / Video
Distributor: ACCESS / No Charge / 15 minutes
Grade: 4 - 6
Review: Alberta Education

Models can be used to make information more understandable.

THINKABOUT: A MATTER OF TIME

Publisher: Agency For Instr. TV / 1980 / Video
Distributor: ACCESS / No Charge / 15 minutes
Grade: 4 - 6
Review: Alberta Education

This program is about how much time you should give to thinking about a problem. A commercial pilot takes her niece and her two friends out on an airplane trip to a cabin near a lake. They crash and have to take time to deal with all the problems that result.

THINKABOUT: MORE THAN YOU THINK

Publisher: Agency For Instr. TV / 1979 / Video
Distributor: ACCESS / No Charge / 15 minutes
Grade: 4 - 6
Review: Alberta Education

Shows how to expand the information that is available to you in order to help solve a problem in mathematics.

THINKABOUT: NATURE'S PATTERNS

Publisher: Agency For Instr. TV / 1979 / Video
Distributor: ACCESS / No Charge / 15 minutes
Grade: 4 - 6
Review: Alberta Education

Susan and her cousin Howard set out to discover why all the fish in the farm pond have died. A series of systematic experiments are shown that reveal patterns in nature.

THINKABOUT: ONE STEP AT A TIME

Publisher: Agency For Instr. TV / 1980 / Video
Distributor: ACCESS / No Charge / 15 minutes
Grade: 4 - 6
Review: Alberta Education

Demonstrates the need to sequence ideas and information in order to achieve results effectively.

THINKABOUT: ONE THING LEADS TO ANOTHER

Publisher: Agency For Instr. TV / 1980 / Video
Distributor: ACCESS / No Charge / 15 minutes
Grade: 4 - 6
Review: Alberta Education

A group of young people discover that the solution of one problem can cause a greater problem later on. The problem is the mix-up in booking babysitters. The solution - the formation of a babysitting company which leads to increased capital costs, cash flow problems, and price raising.

THINKABOUT: PEOPLE PATTERNS

Publisher: Agency For Instr. TV / 1979 / Video
Distributor: ACCESS / No Charge / 15 minutes
Grade: 4 - 6
Review: Alberta Education

Provides a number of interesting examples of patterns in human behaviour. Demonstrates how an awareness of such patterns can be useful.

THINKABOUT: PLAN AHEAD

Publisher: Agency For Instr. TV / 1980 / Video
Distibutor: ACCESS / No Charge / 15 minutes
Grade: 4 - 6
Review: Alberta Education

Deals with the need for systematic planning. The individual must identify the tasks to be completed, the time needed, the progress made as work is carried out and so on.

THINKABOUT: SEARCH FOR THE UNKNOWN

Publisher: Agency For Instr. TV / 1979 / Video
Distributor: ACCESS / No Charge / 15 minutes
Grade: 4 - 6
Review: Alberta Education

Students consider a number of scientific approaches which could be used to investigate the existence of the Loch Ness monster. They are then challenged to come up with their own explanations for "Nessie" and similar phenomena.

THINKABOUT: THERE'S ALWAYS A RISK

Publisher: Agency For Instr. TV / 1980 / Video
Distributor: ACCESS / No Charge / 15 minutes
Grade: 4 - 6
Review: Alberta Education

This program is a continuation of "A Matter of Time". It continues the examination of the process of problem solving, by demonstrating that solving problems usually involves taking risks. The use of estimating in common-sense decisions to take risks is emphasized.

THINKABOUT: WHAT DO I KNOW?

Publisher: Agency For Instr. TV / 1979 / Video
Distributor: ACCESS / No Charge / 15 minutes
Grade: 4 - 6
Review: Alberta Education

Deals with the problem of collecting relevant information. In the first segment, the owner and the finder of a lost dog both collect information in order to effect a reconciliation. A UFO sighting provides the theme for the second segment.

THINKABOUT: WHAT SHOULD I DO?

Publisher: Agency For Instr. TV / 1979 / Video
Distributor: ACCESS / No Charge / 15 minutes
Grade: 4 - 6
Review: Alberta Education

Three students must develop a new menu for their cafeteria. Different methods of collecting and recording relevant information are presented.

THINKABOUT: WHERE SHOULD I GO?

Publisher: Agency For Instr. TV / 1979 / Video
Distributor: ACCESS / No Charge / 15 minutes
Grade: 4 - 6
Review: Alberta Education

Two young boys attempt to prove they saw a UFO. This program focuses on their search for useful sources of information.

THINKABOUT: USING ESTIMATING AND APPROXIMATING

Publisher: Agency For Instr. TV / 1979 / Video
Distributor: ACCESS / No Charge / 15 minutes
Grade: 4 - 6
Review: Alberta Education

By dramatizing the efforts of two youngsters to insulate a house, the program shows the use of estimating and approximating skills.

TIME

Publisher: Hayes Publishing Ltd. / 1980 / Print
Distributor: Hayes Publishing Ltd. / 32 pages
Grade: 1 - 6
Review: Alberta Education

A student workbook on time measurement.

W

WALK ON NUMBER LINE

Publisher: Instructo / ? / Kit
Distributor: Thomas Howe Associates / $7.45
Grade: K - 2
Review: Calgary Public

A 10-foot long vinyl runner offers a great variety of possibilities for number concept development. Students will need encouragement to explore its varied approaches.

WEE SHAPES GAMES

Publisher: Orda Industries / 1973 / Game
Distributor: Spectrum / $12.95
Grade: K - 1
Review: Alberta Education

A game for one to four players and aimed at sharpening shape discrimination skills by sight and by touch. The object of the game is to reproduce correctly a colour picture card as quickly as possible, using plastic shapes on a layout board.

WHAT'S MY RULE?

Publisher: Dale Seymour / 1983 / Print
Distributor: Spectrum / $7.00 / 84 pages
Grade: 6 - 12
Review: Alberta Education

A book that provides guessing activities for problem solving (black line masters).

WHEN ARE WE EVER GONNA HAVE TO USE THIS?

Publisher: Dale Seymour / 1981 / Print
Distributor: Spectrum / $8.00 / 88 pages
Grade: Teacher Reference
Review: Alberta Education

A collection of math applications in 100 different occupations.

WHEN IS NOW? EXPERIMENTS WITH TIME AND TIMEKEEPING DEVICES

Publisher: Doubleday / 1980/ Print
Distributor: Doubleday / $9.95
Grade: 6 +
Review: Calgary Public

This publication discusses time and some of the earliest ways of measuring it and the international time zones. Instructions include step-by-step directions and photos and diagrams for making sundials, a nocturnal, and a candle clock, etc.

WHERE IS IT?

Publisher: Doubleday / 1979 / Print
Distributor: Doubleday / $9.95 / 48 pages
Grade: 2 - 4
Review: Edmonton Public

The reader is required to find a replica of an object contained in an inset on each page of busy pictures. This can be an enjoyable way to test a student's power of observation.

WHOLE NUMBER EQUATIONS 1

Publisher: Allyn and Bacon / 1981 / Print
Distributor: Allyn and Bacon / 48 pages
Grade: 2 - 6
Review: Alberta Education

A student workbook using whole numbers and addition, subtraction, multiplication and division.

WHOLE NUMBER EQUATIONS 2

Publisher: Allyn and Bacon / 1981 / Print
Distributor: Allyn and Bacon / 15 pages
Grade: 2 - 6
Review: Alberta Education

A student workbook using whole numbers and addition, subtraction, multiplication and division.

WHOLE NUMBERS

Publisher: Allyn and Bacon / 1981 / Print
Distributor: Allyn and Bacon
Grade: 1 - 6
Review: Alberta Education

A set of four student workbooks on whole numbers.

WORK JOBS II

Publisher: Addison-Wesley / 1979 / Print
Distributor: Addison-Wesley / $11.52 / 153 pages
Grade: Teacher Reference
Review: Alberta Education

This publication provides instructions for making and using 20 open-ended math manipulative activities using familiar concrete materials from the child's world. Designed for use with K-2 students.

APPENDICES

APPENDIX I

LIST OF PUBLISHERS AND DISTRIBUTORS

ACCESS
Media Resource Centre
295 Midpark Way, S.E.
CALGARY, Alberta
T2X 2A8

A.C.M. Educational Aids
P.O. Box 86704
NORTH VANCOUVER, B.C.
V7L 4L2

Avon Camelot Publishing Company
P.O. Box 1357
ORMOND BEACH, Florida
32074

Beaufort
c/o General Publishing Co.
30 Lesmill Road
DON MILLS, Ontario
M3B 2T6

Calgary Public Board
of Education
Media Services Group
3610 - 9th Street, S.E.
CALGARY, Alberta
T2G 3C5

Centre for the Humanities
30 Kelfield Street
REXDALE, Ontario
M9W 5A2

Creative Computing Press
39 Fast Hanover Avenue
MORRIS PLAINS, New Jersey
07950

Addison-Wesley
P.O. Box 580
DON MILLS, Ontario
M3C 2T8

Allyn and Bacon
791 St. Clair Avenue, West
TORONTO, Ontario
M6C 1B8

Bell and Howell
Audio Visual Products Division
230 Barmac Drive
WESTON, Ontario
M9L 2X5

Canadian Educational Media
185 Spadina Avenue
Suite 1
TORONTO, Ontario
M5T 2C6

Charles E. Merrill
230 Barmac Drive
WESTON, Ontario
M9L 2X5

Creative Learning
c/o Kahl's Inc.
P.O. Box 126
KITCHENER, Ontario
N2G 3W9

Crown
c/o General Publishing Co.
30 Lesmill Road
DON MILLS, Ontario
M3B 2T6

D and A Microcomputers
Box 1295
HIGH RIVER, Alberta
TOL 1B0

Dale Seymour Publications
P.O. Box 10888
PALO, Alta, CA
94303

Denoyer-Geppert AV
5235 N. Ravenswood Avenue
CHICAGO, Illinois
60640

Doubleday
105 Bond Street
TORONTO, Ontario
M5B 1Y3

Elsevier-Dutton
c/o Clark, Irwin and Co.
Clarwin House
791 St. Clair Avenue
TORONTO, Ontario
M6C 1B8

Fitzhenry and Whiteside
150 Lesmill Road
DON MILLS, Ontario
M3B 2T5

G.L.C. Publishers Limited
115 Nuget Avenue
AGINCOURT, Ontario
M1S 3B1

General Publishing Co. Limited
30 Lesmill Road
DON MILLS, Ontario
M3B 2T6

Globe Modern
200 Steelcase Road, East
MARKHAM, Ontario
L3R 1G2

Guidance Associates
Communications Park
Box 3000
MOUNT KISCO, New York
10549

Holt, Rinehart and Winston
5 Horner Avenue
TORONTO, Ontario
M8Z 4X6

Houghton-Mifflin
150 Steelcase Road West
MARKHAM, Ontario
L3R 1B2

International Council for Computers in Education
c/o Department of Computer and Information Science
University of Oregon
EUGENE, Oregon
97403

John Wiley and Sons
22 Worcester Road
REXDALE, Ontario
M9W 1L1

Kahl's Inc.
P.O. Box 126
KITCHENER, Ontario
N2G 3W9

Ladybird Books
c/o Choice Publications Ltd.
491 Brimley Road
Unit 25
SCARBOROUGH, Ontario
M1J 1A4

Lawrence Hall of Science
University of California
BERKELEY, CA
94720

Lippincott
Six Westchester Terrace
NEW YORK, NY
10022

Little
34 Beacon Street
BOSTON, Ma
02106

Lothrop
105 Madison Avenue
NEW YORK, NY
10016

Louis Kool and Son
130 - 132 Sunrise Avenue
TORONTO, Ontario
M4A 1B6

Modern Curriculum Press
13900 Prospect Road
CLEVELAND, Ohio
44136

Moyer Vico
12309 - 118 Avenue
EDMONTON, Alberta
T5L 2K2

or

#60 Southcentre
100 Anderson Road, S.E.
CALGARY, Alberta
T2G 3V1

McIntyre Educational Media
30 Kelfield Street
REXDALE, Ontario
M9W 5Az

National Film Board
Centennial Building
10031 - 103 Avenue
EDMONTON, Alberta
T5J 0G9

or

P.O. Box 2959
Station M
CALGARY, Alberta
T2P 3C3

National Scientific Products
2200 South Sheridan Way
MISSISSAUGA, Ontario
LSJ 2M5

Psycan
101 Amber Street
MARKHAM, Ontario
L3R 3B2

Scholastic Book Services
123 Newkirk Road
RICHMOND HILL, Ontario
L4C 3G5

School Services of Canada
66 Portland Street
TORONTO, Ontario
M5V 2M8

Spectrum Educational
Supplies Ltd.
2102 Elspeth Place
PORT COQUITLAM, B.C.
V3C 1G3

School Book Branch
10410 - 121 Street
EDMONTON, Alberta
T5N 1L2

Setsco
567 Clarke Road
COQUITLAM, B.C.
V3J 3X4

S.R.A
Science Research Associates
707 Gordon Baker Road
WILLOWDALE, Ontario
M2H 2S6

Terrapin, Inc.
#205, 678 Massachusetts Ave.
CAMBRIDGE, Massachusetts
02139

Thomas Howe Associates
Suite 1
1226 Homer Street
VANCOUVER, B.C.
V6B 2Y9

Thomas Y. Crowell
c/o Fitzhenry Whiteside
150 Lesmill Road
DON MILLS, Ontario
M3B 2T5

Troll
c/o Franklin Watts
20 Torbag Road
MARKHAM, Ontario
L3R 1G6

T.S. Denison and Company, Inc.
9601 Newton Avenue, South
MINNEAPOLIS, Minnesota
55431

Van Nostrand
1410 Birchmount Road
SCARBOROUGH, Ontario
M1P 2E7

Visual Education Centre
75 Horner Avenue
Unit One
TORONTO, Ontario
M8Z 4X5

Watts
387 Park Avenue, South
NEW YORK, NY
10019

William Collins
100 Lesmill Road
DON MILLS, Ontario
M3B 2T5

APPENDIX II

OTHER USEFUL LEARNING RESOURCES

The National Council of Teachers of Mathematics
1906 Association Drive
RESTON, Virginia
(publishes the *Arithmetic Teacher*)

Mathematics Their Way Newsletter
Spectrum Educational Supplies Ltd.
2102 Elspeth Place
PORT COQUITLAM, British Columbia
V3C 1G3

The Canadian Mathematics Teachers
3821 - 202 A Street
LANGLEY, British Columbia
V3A 1T3

APPENDIX III

REGIONAL RESOURCE CENTRE DIRECTORY

The following Regional Resource Centres can provide additional supplementary learning resources. Contact your nearest centre for conditions of loan and catalogues.

Zone 1 - Zone One Film Centre
Box 988
PEACE RIVER, Alberta
TOH 2XO

Zone 2/3 - Central Alberta Media Services
2017 Brentwood Boulevard
SHERWOOD PARK, Alberta
T8A OX2

Zone 4 - Alberta Central Region Education Services
County of Lacombe #14
Bag Service 108
LACOMBE, Alberta
TOC 1SO

Zone 5 - South Central Alberta Film Federation
County of Wheatland #16
Box 90
STRATHMORE, Alberta
TOJ 3HO

Zone 6 - Southern Alberta Regional Film Centre
Lethbridge Regional Office
Provincial Building
Bag Service 3014
LETHBRIDGE, Alberta
T1J 4C7

QA 135-5 Z9 A32 1983
ALBERTA ALBERTA EDUCATION
ELEMENTARY MATHEMATICS
SUPPLEMENTARY LEARNING
39665647 CURR HIST

000017757469

QA 135.5 Z9 A32 1983
Alberta. Alberta Education.
Elementary mathematics
supplementary learning
39665647 CURR HIST

CURRICULUM GUIDE

For Reference

NOT TO BE TAKEN FROM THIS ROOM

EXCEPT WITH LIBRARIAN'S PERMISSION